SONY®

CAMERA CONTROL UNIT

CCU-700A
CCU-700AP

SDI INPUT BOARD

BKP-7312

MAINTENANCE MANUAL
Volume 2 2nd Edition (Revised 2)
Serial No. 15001 and Higher (UC)
Serial No. 35001 and Higher (J)
Serial No. 45001 and Higher (CE)
Serial No. 50001 and Higher (UC/J/CE)

⚠警告

このマニュアルは，サービス専用です。

お客様が，このマニュアルに記載された設置や保守，点検，修理など行うと感電や火災，人身事故につながることがあります。

危険をさけるため，サービストレーニングを受けた技術者のみご使用ください。

⚠WARNING

This manual is intended for qualified service personnel only.

To reduce the risk of electric shock, fire or injury, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so. Refer all servicing to qualified service personnel.

⚠WARNUNG

Die Anleitung ist nur für qualifiziertes Fachpersonal bestimmt.

Alle Wartungsarbeiten dürfen nur von qualifiziertem Fachpersonal ausgeführt werden. Um die Gefahr eines elektrischen Schlages, Feuergefahr und Verletzungen zu vermeiden, sind bei Wartungsarbeiten strikt die Angaben in der Anleitung zu befolgen. Andere als die angegeben Wartungsarbeiten dürfen nur von Personen ausgeführt werden, die eine spezielle Befähigung dazu besitzen.

⚠ AVERTISSEMENT

Ce manual est destiné uniquement aux personnes compétentes en charge de l’entretien. Afin de réduire les risques de décharge électrique, d’incendie ou de blessure n’effectuer que les réparations indiquées dans le mode d’emploi à moins d’être qualifié pour en effectuer d’autres. Pour toute réparation faire appel à une personne compétente uniquement.

Table of Contents

Manual Structure

Purpose of this manual 5
Contents 5

1. Spare Parts

1-1. Notes on Spare Parts 1-1
1-2. Exploded Views 1-2
  CABINET AND BOARDS BLOCK-1 1-2
  CABINET AND BOARDS BLOCK-2 1-4
  POWER ASSY 1-6
  REAR PANEL BLOCK 1-8
  SCREWS AND WASHERS 1-10
1-3. Electrical Parts List 1-11
1-4. Supplied Accessories 1-54
1-5. Optional Fixtures 1-54

2. Semiconductor Pin Assignments

3. Block Diagrams

OVERALL BLOCK 3-2
DM-94 BOARD 3-4
VA-156 BOARD 3-6
AT-88 BOARD 3-10

4. Schematic Diagrams

LOCATION OF PRINTED CIRCUIT BOARDS 4-1
DM-94 BOARD 4-2
VA-156 BOARD 4-8
AT-88 BOARD 4-18
MB-563 BOARD 4-26
FRAME WIRING 4-28
POWER BLOCK 4-30

5. Board Layouts

DM-94 BOARD 5-2
VA-156 BOARD 5-4
AT-88 BOARD 5-6
MB-563 BOARD 5-8

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Manual Structure

Purpose of this manual

This manual is the maintenance manual for Camera Control Unit CCU-700A/700AP. This manual describes the information items necessary when the unit is supplied and installed, items on maintenance, and items that premise the service based on the components parts such as alignment, schematic diagrams, board layouts and spare parts list, assuming use of system and service engineers.

Contents

This followings are summaries of the each section for understanding the manual.

Maintenance Manual Volume 2

Section1. Spare Parts

Describes parts list, exploded views, supplied accessories and fixtures list used in the unit.

Section 2. Semiconductor Pin Assignments

Describes function diagrams and pin names of semiconductor used in the unit.

Section 3. Block Diagrams

Describes overall block diagram and the block diagrams for every circuit board.

Section 4. Schematic Diagrams

Describes schematic diagrams for every circuit board.

Section 5. Board Layouts

Describes board layouts for every circuit board.

Maintenance Manual Volume 1

Section 1. Installation

Describes information about connector input/output signals, instance of configuration and function of internal switches.

Section 2. Service Overview

Describes information about replacement of part and notes on services.

Section 3. Electrical Alignment

Describes electrical adjustment.

Section 1
Spare Parts

1-1. Notes on Spare Parts

1. Safety Related Components Warning

Components marked ⚠ are critical to safe operation. Therefore, specified parts should be used in the case of replacement.

2. Standardization of Parts

Some repair parts supplied by Sony differ from those used for the unit. These are because of parts commonality and improvement.
Parts list has the present standardized spare parts.

3. Stock of Parts

Parts marked with “o” at SP(Supply Code) column of the spare parts list may be not stocked.
Therefore, the delivery date will be delayed.

4. Units Representation

The following represented units are changed or omitted in writing.

Units		Representation
Capacitance	µF	uF
Inductance	µH	uH
Resistance	Ω	Abbreviation
Temperature	˚C	XXX-DEG-C

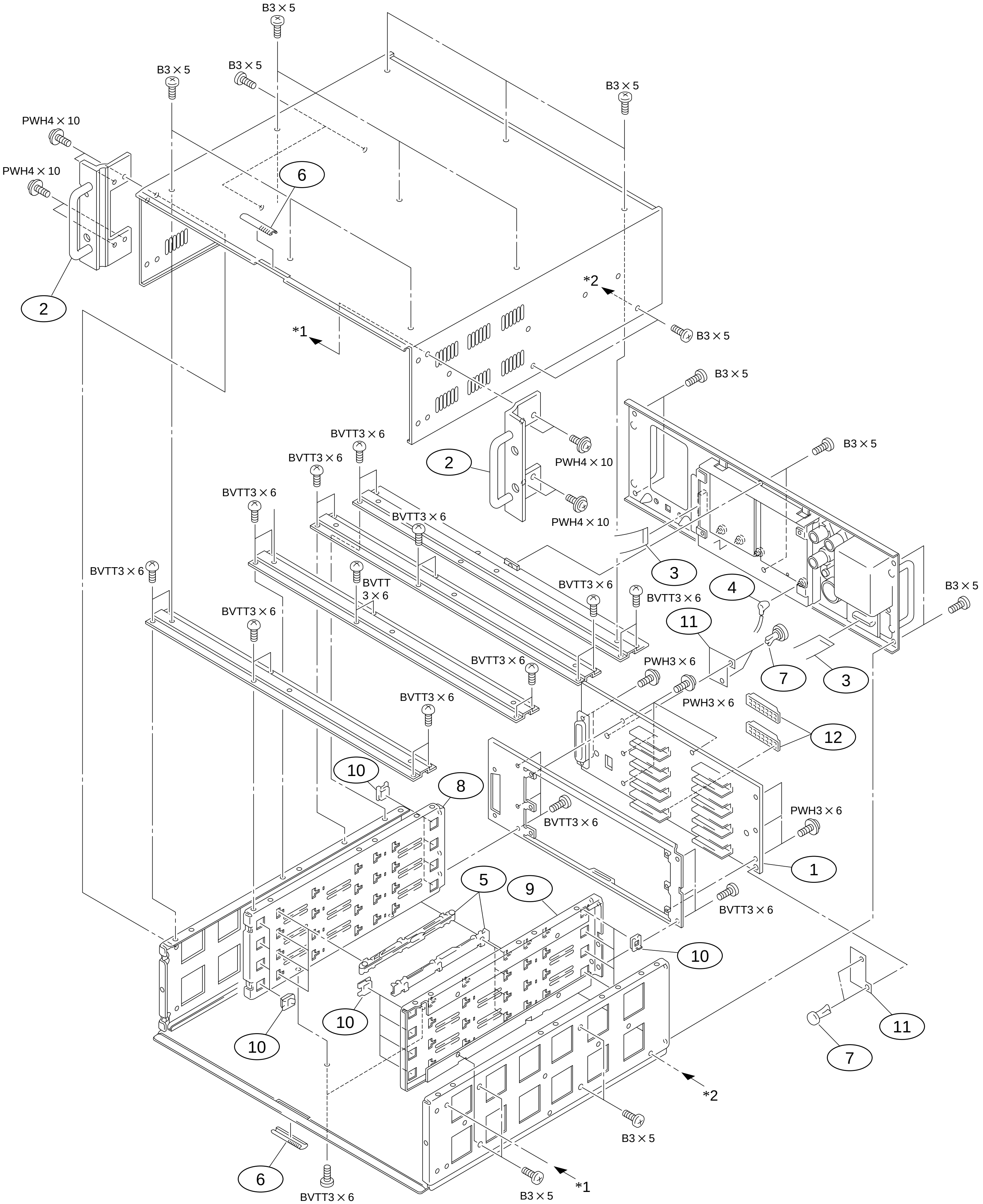
5. Destination Representation

The part indicated “For J/UC/CE” in the spare parts list is used in the unit written below.

For J : The part is used in a unit for Japan.
For UC : The part is used in a unit for U.S.A. and Canada.
For CE : The part is used in a unit for regions except the above countries.

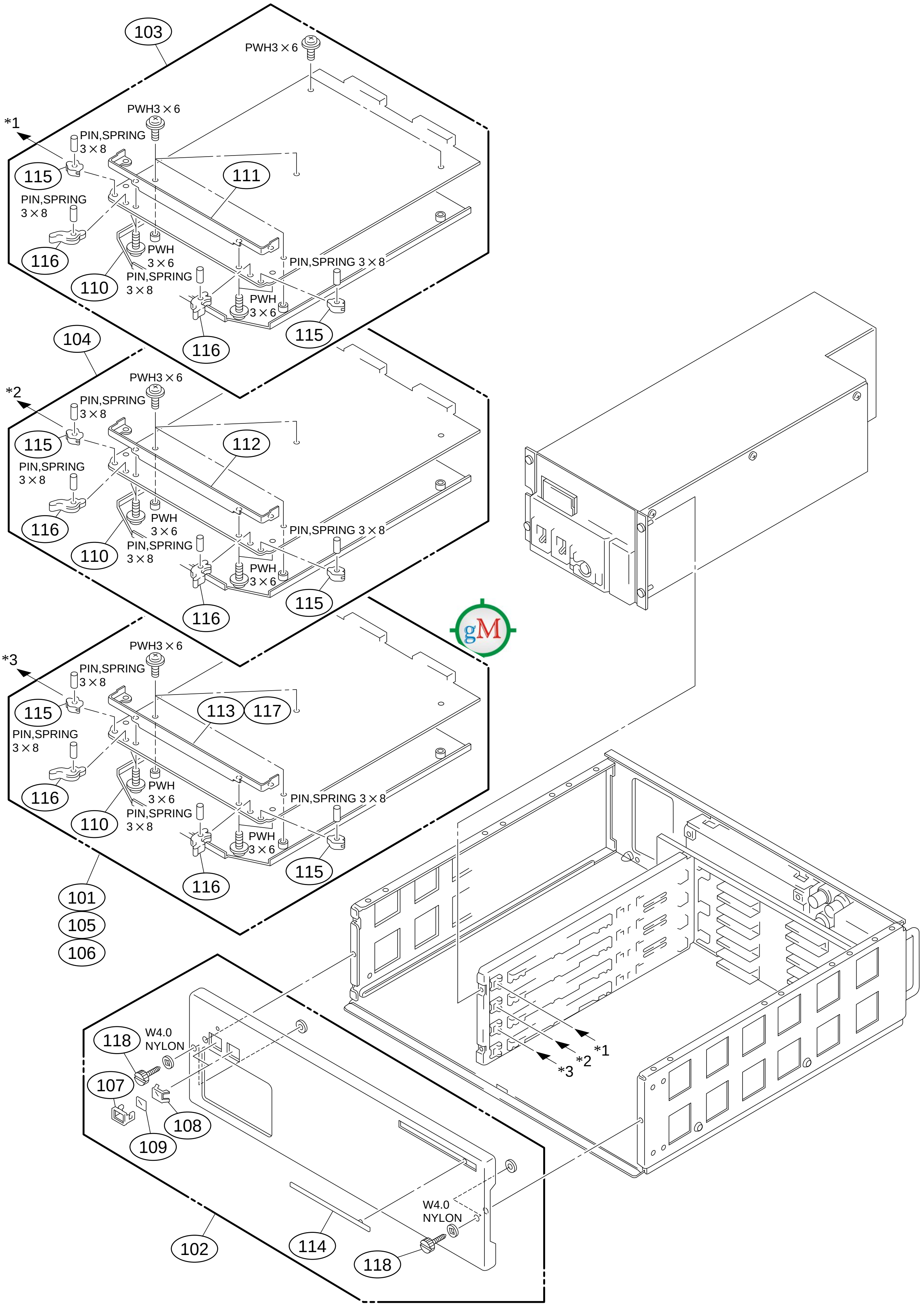
6. The part that the part number is parenthesized is compatible with the part just above it.

1-2. Exploded Views


B3 × 5
B3 × 5
B3 × 5
B3 × 5
PWH4 × 10
PWH4 × 10
6
2
*2
B3 × 5
*1
B3 × 5
B3 × 5
BVTT3 × 6
BVTT3 × 6
2
PWH4 × 10
PWH4 × 10
BVTT3 × 6
BVTT3 × 6
BVTT3 × 6
BVTT
3 × 6
3
BVTT3 × 6
4
BVTT3 × 6
B3 × 5
BVTT3 × 6
11
BVTT3 × 6
PWH3 × 6
7
3
PWH3 × 6
BVTT3 × 6
12
10
8
BVTT3 × 6
PWH3 × 6
1
5
9
BVTT3 × 6
10
10
10
11
7
*2
B3 × 5
6
BVTT3 × 6
B3 × 5
*1

No.	Part No.	SP	Description
1	A-8314-024-A	o	MOUNTED CIRCUIT BOARD, MB-563
2	X-2127-218-3	o	ANGLE (3U) ASSY, RACK
3	1-590-489-11	s	CABLE, FLEXIBLE FLAT (25 CORE)
4	1-765-696-11	s	CABLE ASSEMBLY, COAXIAL
5	3-169-099-01	o	RAIL, PC BOARD GUIDE
6	3-175-260-01	o	FINGER, SNAP
7	3-531-576-11	s	RIVET
8	3-681-029-11 (3-681-029-01)	o	RAIL PLATE L
9	3-681-031-11 (3-681-031-01)	o	RAIL PLATE R
10	3-681-043-01	o	GUIDE
11	3-693-964-01	o	SHEET,INSULATING
12	3-693-966-01	o	GUARD,PIN

CABINET AND BOARDS BLOCK-2

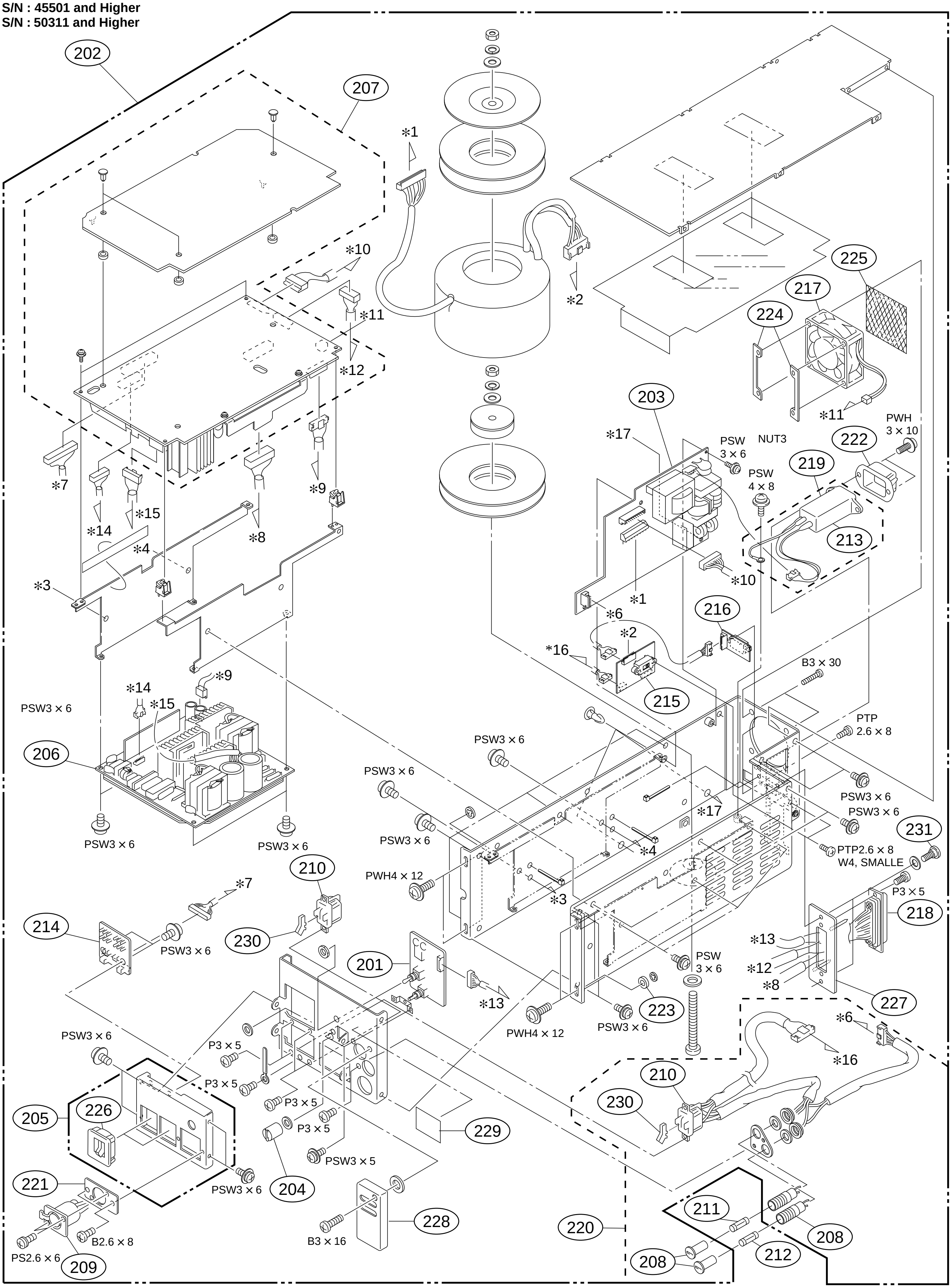


103
PWH3 × 6
*1
PWH3 × 6
PIN,SPRING 3 × 8
115
111
PIN,SPRING 3 × 8
116
PWH 3 × 6
PIN,SPRING 3 × 8
110
PIN,SPRING 3 × 8
PWH 3 × 6
115
116
104
PWH3 × 6
*2
PIN,SPRING 3 × 8
115
112
PIN,SPRING 3 × 8
116
PWH 3 × 6
PIN,SPRING 3 × 8
110
PIN,SPRING 3 × 8
PWH 3 × 6
115
116
PWH3 × 6
*3
PIN,SPRING 3 × 8
115
113
117
PIN,SPRING 3 × 8
116
PWH 3 × 6
PIN,SPRING 3 × 8
110
PIN,SPRING 3 × 8
PWH 3 × 6
115
116
101
105
106
*1
*2
*3
118
W4.0 NYLON
107
108
109
W4.0 NYLON
102
114
118

No.	Part No.	SP	Description
101	A-8265-852-A	o	MOUNTED CIRCUIT BOARD, VA-156P (FOR CCU-700AP)
102	A-8278-053-A	o	FRONT ASSY
103	A-8314-022-A	o	MOUNTED CIRCUIT BOARD, DM-94
104	A-8314-023-A	o	MOUNTED CIRCUIT BOARD, AT-88
105	A-8314-031-A	o	MOUNTED CIRCUIT BOARD, VA-156A (FOR CCU-700A:UC)
106	A-8314-039-A	o	MOUNTED CIRCUIT BOARD, VA-156B (FOR CCU-700A:J)
107	2-139-192-01	s	FRAME, INDICATOR WINDOW
108	2-139-193-02	s	WINDOW, INDICATOR
109	2-249-353-00	s	COVER, LAMP
110	3-681-020-01	o	PC SHIELD PLATE
111	3-681-036-01	o	PC BOARD PANEL DM
112	3-681-037-01	o	PC BOARD PANEL AT
113	3-681-038-01	o	PC BOARD PANEL VA (FOR CCU-700A)
114	3-681-039-01	o	NAME LABEL
115	3-681-042-01	o	LEVER, PC BOARD(1)
116	3-681-045-01	o	LEVER, PC BOARD(2)
117	3-683-019-01	o	PC BOARD PANEL VA/P (FOR CCU-700AP)
118	3-687-887-01	s	SCREW (M4X20)

POWER ASSY

S/N : 15701 and Higher
S/N : 35161 and Higher
S/N : 45501 and Higher
S/N : 50311 and Higher

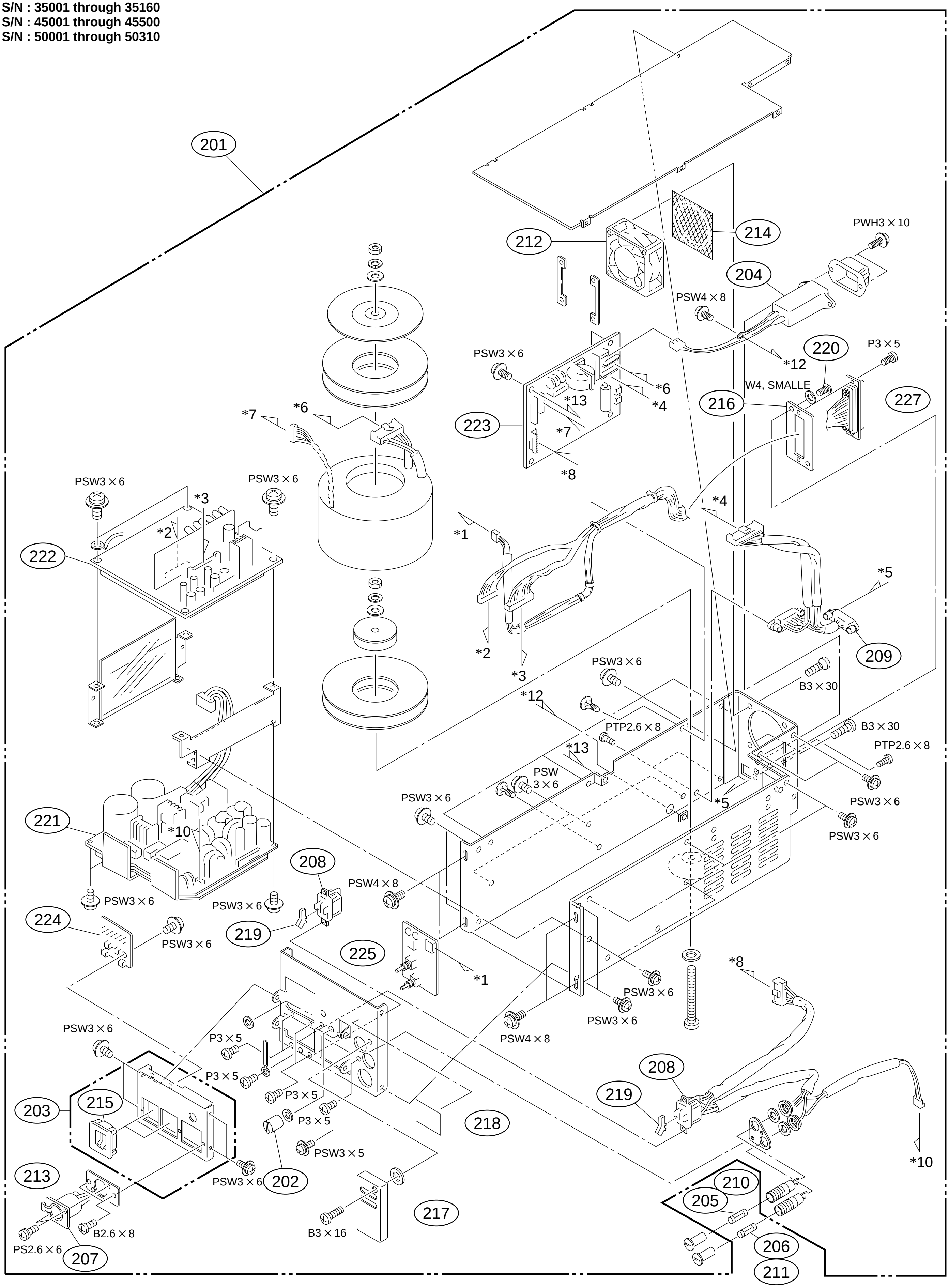


202
207
∗1
∗10
∗11
∗12
∗2
225
217
224
∗11
203
∗17
PSW
3 × 6
NUT3
PSW
4 × 8
PWH
3 × 10
222
219
213
∗10
∗1
∗7
∗9
∗14
∗15
∗8
∗4
∗3
∗6
∗2
216
∗16
215
B3 × 30
PTP
2.6 × 8
∗9
∗14
∗15
PSW3 × 6
206
PSW3 × 6
PSW3 × 6
PSW3 × 6
PSW3 × 6
PSW3 × 6
PSW3 × 6
∗17
PSW3 × 6
PSW3 × 6
∗4
PTP2.6 × 8
W4, SMALLE
231
P3 × 5
218
210
PWH4 × 12
∗7
∗3
214
PSW3 × 6
230
201
∗13
∗13
∗12
∗8
PSW
3 × 6
227
223
PWH4 × 12
PSW3 × 6
∗6
∗16
PSW3 × 6
P3 × 5
P3 × 5
210
230
P3 × 5
P3 × 5
205
226
229
221
PSW3 × 6
204
PSW3 × 5
211
208
220
228
212
B2.6 × 8
PS2.6 × 6
209
B3 × 16
208

No.	Part No.	SP	Description
201	A-8272-884-A	o	MOUNTED CIRCUIT BOARD, AU-209
202	A-8273-371-B	s	UNIT (RP), POWER
203	A-8320-133-A	o	MOUNTED CIRCUIT BOARD, FL-246
204	X-3664-209-0	s	KNOB ASSY, GAIN
205	X-3678-155-1	o	PS PANEL ASSY
206	1-475-446-11	o	POWER UNIT (PS-480)
207	1-475-447-11	o	POWER UNIT (PS-481)
208	1-533-191-12	s	HOLDER, FUSE
209	1-563-159-11	s	CONNECTOR, 5P FEMALE “INTERCOM”
210	⚠ 1-570-117-41	s	SWITCH, ROCKER “MAIN” “CAMERA”
211	⚠ 1-576-230-11	s	FUSE(H.B.C) T3.15AH 250V (FOR CCU-700AP)
	⚠ 1-532-745-11	s	FUSE, GLASS TUBE 3.15A 125V (FOR CCU-700A)
212	⚠ 1-576-231-11	s	FUSE(H.B.C) T4.0AH 250V (FOR CCU-700AP)
	⚠ 1-532-748-11	s	FUSE, GLASS TUBE 6.3A 125V (FOR CCU-700A)
213	⚠ 1-580-357-21	s	INLET, 3P
214	1-660-104-11	o	PRINTED CIRCUIT BOARD, LE-133
215	1-669-659-11	o	MOUNTED CIRCUIT BOARD, SW-958
216	1-669-660-11	o	MOUNTED CIRCUIT BOARD, SW-959
217	1-698-804-11	o	MOTOR, DC
218	1-959-139-11	o	HARNESS (D-50)
219	1-959-141-11	o	HARNESS (AC)
220	1-959-142-11	o	HARNESS (FUSE)
221	2-128-245-02	o	PLATE (XLR), PHONE
222	2-990-241-02	s	HOLDER, PLUG (A)
223	3-603-809-01	o	SPACER
224	3-675-897-01	o	BRACKET, FAN
225	3-675-898-00	o	PLATE, VENTILATION
226	3-681-054-01	o	POWER SW GUARD
227	3-681-055-11 (3-681-055-01)	o	50PIN PLATE
228	3-681-721-11 (3-681-721-01)	o	BLIND PLATE, FUSE
229	3-681-730-03	o	FUSE LABEL
230	3-688-814-01	s	CAP, SWITCH
231	3-694-825-11	s	SCREW (M3) (STEP), SPECIAL HEAD

POWER ASSY

S/N : 15001 through 15700
S/N : 35001 through 35160
S/N : 45001 through 45500
S/N : 50001 through 50310


201
212
214
PWH3 × 10
204
PSW4 × 8
220
P3 × 5
*12
PSW3 × 6
W4, SMALLE
216
227
*6
*13
*4
223
*7
*8
*7
*6
PSW3 × 6
PSW3 × 6
*3
*2
222
*4
*1
*5
209
*2
*3
PSW3 × 6
B3 × 30
*12
B3 × 30
PTP2.6 × 8
*13
PTP2.6 × 8
PSW
3 × 6
*5
PSW3 × 6
PSW3 × 6
PSW3 × 6
221
*10
208
PSW4 × 8
PSW3 × 6
PSW3 × 6
224
219
PSW3 × 6
225
*1
*8
PSW3 × 6
PSW3 × 6
PSW4 × 8
PSW3 × 6
P3 × 5
208
P3 × 5
219
P3 × 5
203
215
P3 × 5
218
PSW3 × 5
*10
213
PSW3 × 6
202
210
205
217
B2.6 × 8
B3 × 16
206
PS2.6 × 6
207
211

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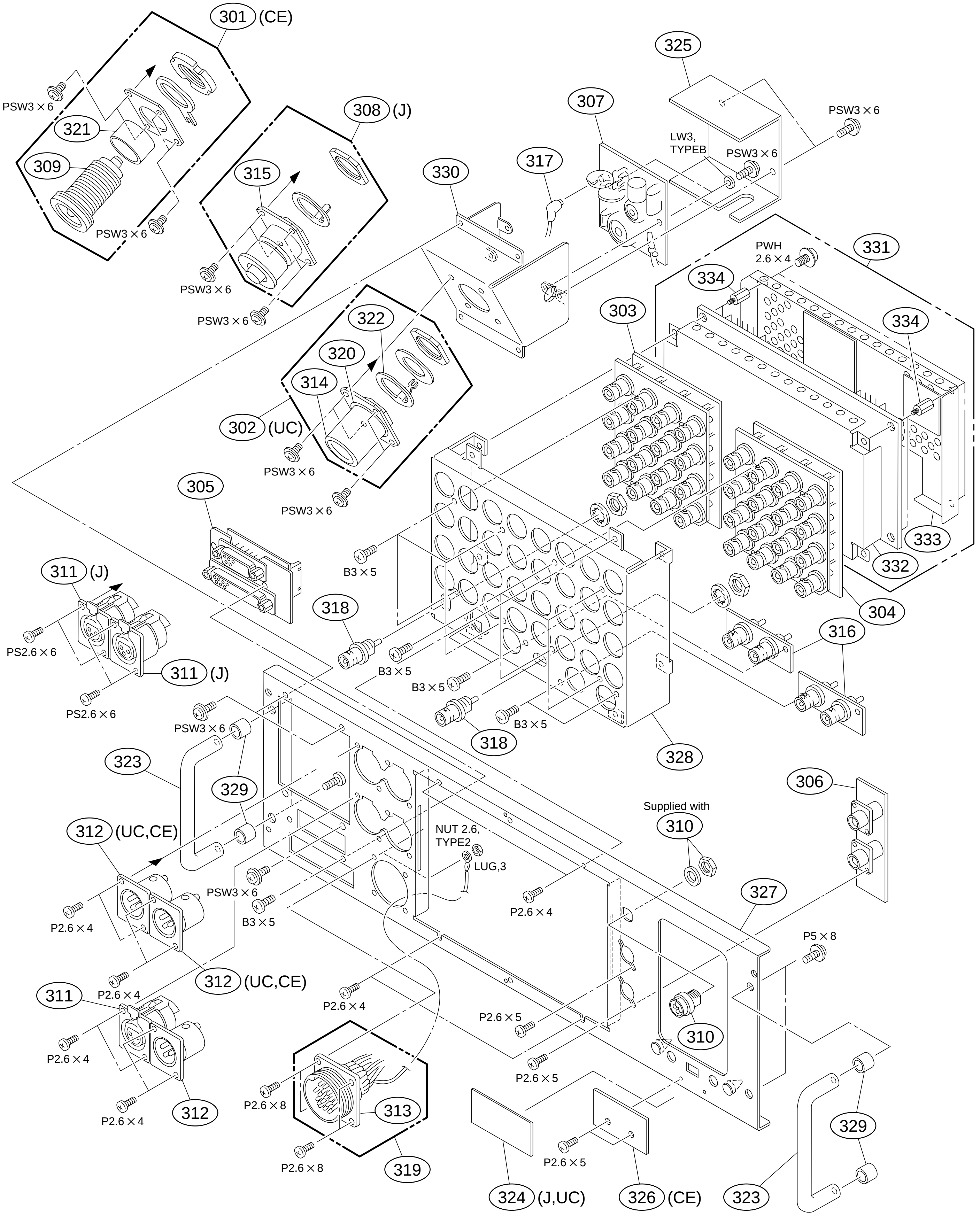
No.		Part No.	SP	Description
201	⚠	A-8273-371-A	s	POWER UNIT(RP)
202		X-3664-209-0	s	KNOB ASSY, GAIN
203		X-3678-155-1	o	PS PANEL ASSY
204	⚠	1-251-378-11	s	INLET, AC (3P) “AC IN”
205	⚠	1-532-745-11	s	FUSE, GLASS TUBE 3.15A 125V (FOR CCU-700A)
206	⚠	1-532-748-11	s	FUSE, GLASS TUBE 6.3A 125V (FOR CCU-700A)
207		1-563-159-11	s	CONNECTOR, 5P FEMALE “INTERCOM”
208	⚠	1-570-117-41	s	SWITCH, ROCKER “MAIN” “CAMERA”
209	⚠	1-570-173-11	s	SELECTOR, POWER VOLTAGE
210	⚠	1-576-230-11	s	FUSE(H.B.C) T3.15AH 250V (FOR CCU-700AP)
211	⚠	1-576-231-41	s	FUSE(H.B.C) T4.0AH 250V (FOR CCU-700AP)
212		1-698-106-11	s	MOTOR, DC BLUSHLESS FAN
213		2-128-245-01	o	PLATE (XLR), PHONE
214		3-675-898-00	o	PLATE, VENTILATION
215		3-681-054-01	o	POWER SW GUARD
216		3-681-055-11 (3-681-055-01)	o	50PIN PLATE
217		3-681-721-11 (3-681-721-01)	o	BLIND PLATE,FUSE
218		3-681-730-03	o	FUSE LABEL
219		3-688-814-01	s	CAP, SWITCH
220		3-694-825-11	s	SCREW (M3) (STEP),SPECIAL HEAD
221		1-589-836-11	o	MOUNTED CIRCUIT BOARD, PS-356
222		1-589-837-11	o	MOUNTED CIRCUIT BOARD, PS-357
223		1-589-838-11	o	MOUNTED CIRCUIT BOARD, CN-1013
224		1-660-104-11	o	PRINTED CIRCUIT BOARD, LE-133
225		A-8272-884-A	o	MOUNTED CIRCUIT BOARD, AU-209
227		1-955-706-11	o	HARNESS, D-SUB

REAR PANEL BLOCK


301 (CE)
325
PSW3 × 6
307
PSW3 × 6
308 (J)
LW3, TYPEB
PSW3 × 6
321
317
309
315
330
PSW3 × 6
PWH 2.6 × 4
331
PSW3 × 6
334
PSW3 × 6
303
334
322
320
314
302 (UC)
PSW3 × 6
PSW3 × 6
305
333
332
B3 × 5
311 (J)
304
318
316
PS2.6 × 6
311 (J)
B3 × 5
B3 × 5
PS2.6 × 6
B3 × 5
PSW3 × 6
318
328
323
329
306
Supplied with
310
312 (UC,CE)
NUT 2.6, TYPE2
LUG,3
PSW3 × 6
P2.6 × 4
B3 × 5
327
P2.6 × 4
P5 × 8
P2.6 × 4
312 (UC,CE)
311
P2.6 × 4
P2.6 × 4
P2.6 × 5
310
P2.6 × 4
P2.6 × 5
P2.6 × 8
313
312
P2.6 × 4
329
P2.6 × 8
319
P2.6 × 5
324 (J,UC)
326 (CE)
323

No.	Part No.	SP	Description
301	A-8265-850-A	o	TRIAX ASSY (F) (FOR CCU-700AP)
302	A-8314-019-A	o	TRIAX ASSY (K) (FOR CCU-700A:UC)
303	A-8314-026-A	o	MOUNTED CIRCUIT BOARD, CN-1015
304	A-8314-027-A	o	MOUNTED CIRCUIT BOARD, CN-1036
305	A-8314-028-A	o	MOUNTED CIRCUIT BOARD, CN-1014
306	A-8314-029-A	o	MOUNTED CIRCUIT BOARD, CN-1049
307	A-8314-030-A	o	MOUNTED CIRCUIT BOARD, IO-103
308	A-8314-037-A	o	TRIAX ASSY (T) (FOR CCU-700A:J)
309	1-560-744-11	s	CONNECTOR, COAXIAL “CAMERA” (FOR CCU-700AP)
310	1-561-376-00	s	CONNECTOR, 4P FEMALE “WF MODE”
311	1-563-029-21	s	CONNECTOR, 3P FEMALE “RTS” “MIC OUTPUT” (FOR CCU-700A:J)
312	1-563-030-21	s	CONNECTOR, 3P MALE “RTS” “MIC OUTPUT”(FOR CCU-700A:UC/CCU-700AP)
313	1-564-971-11	o	CONNECTOR, MULTI 19P MALE “INTERCOM/TALLY/PGM”
314	1-565-796-11	s	CONNECTOR, DOUBLE COAXIAL “CAMERA” (FOR CCU-700A:UC)
315	1-565-798-12	s	CONNECTOR, DOUBLE COAXIAL “CAMERA” (FOR CCU-700A:J)
316	1-750-881-11	s	CONVERTER, COAXIAL CONNECTOR, BNC “SERIAL INPUT RET1/RET2” “SERIAL OUTPUT 2/3”
317	1-765-696-11	s	CABLE ASSEMBLY, COAXIAL
318	1-774-157-11	s	CONVERTER, COAXIAL CONNECTOR, BNC “COAX” “SERIAL OUTPUT 1”
319	1-953-610-11	o	HARNESS (SK-19)
320	2-132-244-01	o	SPACER (UC)
321	2-361-587-00	o	SLEEVE (CE)
322	2-365-236-00	o	LUG (K), GROUND (FOR CCU-700A:UC)
323	2-378-801-01	s	HANDLE
324	3-681-035-01	o	BLIND SHEET (FOR CCU-700A)
325	3-681-048-11 (3-681-048-01)	o	TRIAX BOX LID
326	3-683-020-01	o	COVER, INDICATION PLATE (FOR CCU-700AP)
327	3-693-962-02	o	REAR PANEL
328	3-693-963-02	o	BRACKET,BNC
329	3-693-965-01	o	SPACER,HANDLE
330	3-741-713-02 (3-741-713-01)	o	BOX, TRIAX
331	SDI INPUT BOARD BKP-7312 (OPTION)		
332	X-3678-532-1	o	ASSY, CASE (A) SHIELD
333	X-3678-533-1	o	ASSY, CASE (B) SHIELD
334	3-675-725-01	o	SPACER, PC BOARD

No.	Part No.	SP	Description
	7-621-284-00	s	SCREW +P 2.6X4
	7-621-770-XX	s	SCREW +B 2.6X8
	7-622-207-05	s	N 2.6, TYPE 2
	7-623-422-07	s	LW 3, TYPE B
	7-623-508-01	s	LUG, 3
	7-623-925-01	s	WASHER 4.0, NYLON
	7-626-320-11	s	PIN, SPRING 3X8
	7-627-556-58	s	SCREW +P 2.6X5
	7-682-174-01	s	SCREW +P 5X8
	7-682-275-09	s	SCREW +K 5X10
	7-682-546-04	s	SCREW +B 3X5
	7-682-546-09	s	SCREW +B 3X5
	7-682-647-09	s	SCREW +PS 3X6
	7-682-902-01	s	SCREW +PWH 2.6X4
	7-682-903-11	s	SCREW +PWH 3X6
	7-682-904-21	s	SCREW +PWH 4X10
	7-682-947-09	s	SCREW +PSW 3X6
	7-685-871-01	s	SCREW +BVTT 3X6 (S)
	7-688-004-02	o	W 4, SMALL

1-3. Electrical Parts List

RESISTOR, CHIP

Part No.	SP	Description
1-216-295-00	s	S, CHIP 0 5% 1/10W
1-216-298-00	s	S, CHIP 2.2 5% 1/10W
1-216-302-00	s	S, CHIP 2.7 5% 1/10W
1-216-304-00	s	S, CHIP 3.3 5% 1/10W
1-216-306-00	s	S, CHIP 3.9 5% 1/10W
1-216-308-00	s	S, CHIP 4.7 5% 1/10W
1-216-309-00	s	S, CHIP 5.6 5% 1/10W
1-216-311-00	s	S, CHIP 6.8 5% 1/10W
1-216-313-00	s	S, CHIP 8.2 5% 1/10W
1-216-001-00	s	S, CHIP 10 5% 1/10W
1-216-003-00	s	S, CHIP 12 5% 1/10W
1-216-005-00	s	S, CHIP 15 5% 1/10W
1-216-007-00	s	S, CHIP 18 5% 1/10W
1-216-009-00	s	S, CHIP 22 5% 1/10W
1-216-011-00	s	S, CHIP 27 5% 1/10W
1-216-013-00	s	S, CHIP 33 5% 1/10W
1-216-015-00	s	S, CHIP 39 5% 1/10W
1-216-017-00	s	S, CHIP 47 5% 1/10W
1-216-019-00	s	S, CHIP 56 5% 1/10W
1-216-021-00	s	S, CHIP 68 5% 1/10W
1-216-023-00	s	S, CHIP 82 5% 1/10W
1-216-025-00	s	S, CHIP 100 5% 1/10W
1-216-027-00	s	S, CHIP 120 5% 1/10W
1-216-029-00	s	S, CHIP 150 5% 1/10W
1-216-031-00	s	S, CHIP 180 5% 1/10W
1-216-033-00	s	S, CHIP 220 5% 1/10W
1-216-035-00	s	S, CHIP 270 5% 1/10W
1-216-037-00	s	S, CHIP 330 5% 1/10W
1-216-039-00	s	S, CHIP 390 5% 1/10W
1-216-041-00	s	S, CHIP 470 5% 1/10W
1-216-043-00	s	S, CHIP 560 5% 1/10W
1-216-045-00	s	S, CHIP 680 5% 1/10W
1-216-047-00	s	S, CHIP 820 5% 1/10W
1-216-049-00	s	S, CHIP 1k 5% 1/10W
1-216-051-00	s	S, CHIP 1.2k 5% 1/10W
1-216-053-00	s	S, CHIP 1.5k 5% 1/10W
1-216-055-00	s	S, CHIP 1.8k 5% 1/10W
1-216-057-00	s	S, CHIP 2.2k 5% 1/10W
1-216-059-00	s	S, CHIP 2.7k 5% 1/10W
1-216-061-00	s	S, CHIP 3.3k 5% 1/10W
1-216-063-00	s	S, CHIP 3.9k 5% 1/10W
1-216-065-00	s	S, CHIP 4.7k 5% 1/10W
1-216-067-00	s	S, CHIP 5.6k 5% 1/10W
1-216-069-00	s	S, CHIP 6.8k 5% 1/10W
1-216-071-00	s	S, CHIP 8.2k 5% 1/10W
1-216-073-00	s	S, CHIP 10k 5% 1/10W
1-216-075-00	s	S, CHIP 12k 5% 1/10W
1-216-077-00	s	S, CHIP 15k 5% 1/10W
1-216-079-00	s	S, CHIP 18k 5% 1/10W
1-216-081-00	s	S, CHIP 22k 5% 1/10W
1-216-083-00	s	S, CHIP 27k 5% 1/10W
1-216-085-00	s	S, CHIP 33k 5% 1/10W
1-216-087-00	s	S, CHIP 39k 5% 1/10W
1-216-089-00	s	S, CHIP 47k 5% 1/10W
1-216-091-00	s	S, CHIP 56k 5% 1/10W
1-216-093-00	s	S, CHIP 68k 5% 1/10W
1-216-095-00	s	S, CHIP 82k 5% 1/10W
1-216-097-00	s	S, CHIP 100k 5% 1/10W
1-216-099-00	s	S, CHIP 120k 5% 1/10W
1-216-101-00	s	S, CHIP 150k 5% 1/10W

(RESISTOR, CHIP)

Part No.	SP	Description
1-216-103-00	s	S, CHIP 180k 5% 1/10W
1-216-105-00	s	S, CHIP 220k 5% 1/10W
1-216-107-00	s	S, CHIP 270k 5% 1/10W
1-216-109-00	s	S, CHIP 330k 5% 1/10W
1-216-111-00	s	S, CHIP 390k 5% 1/10W
1-216-113-00	s	S, CHIP 470k 5% 1/10W
1-216-115-00	s	S, CHIP 560k 5% 1/10W
1-216-117-00	s	S, CHIP 680k 5% 1/10W
1-216-119-00	s	S, CHIP 820k 5% 1/10W
1-216-121-00	s	S, CHIP 1.0M 5% 1/10W
1-216-123-00	s	S, CHIP 1.2M 5% 1/10W
1-216-125-00	s	S, CHIP 1.5M 5% 1/10W
1-216-127-00	s	S, CHIP 1.8M 5% 1/10W
1-216-129-00	s	S, CHIP 2.2M 5% 1/10W
1-216-131-00	s	S, CHIP 2.7M 5% 1/10W
1-216-133-00	s	S, CHIP 3.3M 5% 1/10W

CAPACITOR, CHIP CERAMIC

Part No.	SP	Description
1-163-083-00	s	P, CHIP CERAMIC 1pF +-0.25pF 50V
1-163-085-00	s	P, CHIP CERAMIC 2pF +-0.25pF 50V
1-163-087-00	s	P, CHIP CERAMIC 4pF +-0.25pF 50V
1-163-089-00	s	P, CHIP CERAMIC 6pF +-0.5pF 50V
1-163-091-00	s	P, CHIP CERAMIC 8pF +-0.5pF 50V
1-163-093-00	s	P, CHIP CERAMIC 10pF 5% 50V
1-163-097-00	s	P, CHIP CERAMIC 15pF 5% 50V
1-163-101-00	s	P, CHIP CERAMIC 22pF 5% 50V
1-163-105-00	s	P, CHIP CERAMIC 33pF 5% 50V
1-163-109-00	s	P, CHIP CERAMIC 47pF 5% 50V
1-163-113-00	s	P, CHIP CERAMIC 68pF 5% 50V
1-163-117-00	s	P, CHIP CERAMIC 100pF 5% 50V
1-163-121-00	s	P, CHIP CERAMIC 150pF 5% 50V
1-163-125-00	s	P, CHIP CERAMIC 220pF 5% 50V
1-163-129-00	s	P, CHIP CERAMIC 330pF 5% 50V
1-163-133-00	s	P, CHIP CERAMIC 470pF 5% 50V
1-163-137-00	s	P, CHIP CERAMIC 680pF 5% 50V
1-163-141-00	s	P, CHIP CERAMIC 1000pF 5% 50V
1-163-145-00	s	P, CHIP CERAMIC 1500pF 10% 50V
1-163-013-00	s	P, CHIP CERAMIC 2200pF 10% 50V
1-163-015-00	s	P, CHIP CERAMIC 3300pF 10% 50V
1-163-017-00	s	P, CHIP CERAMIC 4700pF 10% 50V
1-163-019-00	s	P, CHIP CERAMIC 6800pF 10% 50V
1-163-021-00	s	P, CHIP CERAMIC 0.01 10% 50V
1-163-023-00	s	P, CHIP CERAMIC 0.015 10% 50V
1-163-034-00	s	P, CHIP CERAMIC 0.033 50V
1-163-035-00	s	P, CHIP CERAMIC 0.047 50V
1-163-036-00	s	P, CHIP CERAMIC 0.068 50V
1-163-038-00	s	P, CHIP CERAMIC 0.1 50V

AT-88 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8314-023-A	o	MOUNTED CIRCUIT BOARD, AT-88
12pcs	1-533-223-11	s	HOLDER, FUSE
4pcs	3-741-748-01	o	PLATE, SHIELD, AT
1pc	3-681-037-01	o	PC BOARD PANEL AT
1pc	3-681-020-01	o	PC SHIELD PLATE
9pcs	7-682-903-11	s	SCREW +PWH 3X6
2pcs	3-681-042-01	o	LEVER, PC BOARD(1)
2pcs	3-681-045-01	o	LEVER, PC BOARD(2)
4pcs	7-626-320-11	s	PIN, SPRING 3X8
BT1001	1-528-229-11	o	BATTERY, LITHIUM CR-2450
C4	1-163-377-11	s	CERAMIC, CHIP 100PF 5% 50V
C5	1-163-367-11	s	CERAMIC, CHIP 39PF 5% 50V
C6	1-163-115-00	s	CERAMIC, CHIP 82PF 5% 50V
C7	1-163-131-00	s	CERAMIC, CHIP 390PF 5% 50V
C9	1-163-253-11	s	CERAMIC 120PF 5% 50V
C10	1-135-161-21	s	TANTALUM, CHIP 22uF 10% 10V
C20	1-163-275-11	s	CERAMIC 0.001uF 5% 50V
C24	1-163-111-00	s	CERAMIC, CHIP 56PF 5% 50V
C25	1-163-377-11	s	CERAMIC, CHIP 100PF 5% 50V
C26	1-163-131-00	s	CERAMIC, CHIP 390PF 5% 50V
C30	1-163-989-11	s	CERAMIC, CHIP 0.033uF 10% 25V
C31	1-163-275-11	s	CERAMIC 0.001uF 5% 50V
C32	1-135-161-21	s	TANTALUM, CHIP 22uF 10% 10V
C43	1-163-377-11	s	CERAMIC, CHIP 100PF 5% 50V
C45	1-163-131-00	s	CERAMIC, CHIP 390PF 5% 50V
C49	1-135-177-21	s	TANTALUM, CHIP 1uF 10% 25V
C50	1-135-161-21	s	TANTALUM, CHIP 22uF 10% 10V
C63	1-163-377-11	s	CERAMIC, CHIP 100PF 5% 50V
C64	1-163-235-11	s	CERAMIC, CHIP 22PF 5% 50V
C65	1-163-131-00	s	CERAMIC, CHIP 390PF 5% 50V
C69	1-135-177-21	s	TANTALUM, CHIP 1uF 10% 25V
C70	1-135-161-21	s	TANTALUM, CHIP 22uF 10% 10V
C83	1-163-377-11	s	CERAMIC, CHIP 100PF 5% 50V
C84	1-163-227-11	s	CERAMIC, CHIP 10PF 5% 50V
C85	1-163-131-00	s	CERAMIC, CHIP 390PF 5% 50V
C89	1-135-177-21	s	TANTALUM, CHIP 1uF 10% 25V
C90	1-135-161-21	s	TANTALUM, CHIP 22uF 10% 10V
C103	1-163-243-11	s	CERAMIC, CHIP 47PF 5% 50V
C108	1-163-241-11	s	CERAMIC, CHIP 39PF 5% 50V
C109	1-163-231-11	s	CERAMIC, CHIP 15PF 5% 50V
C110	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C111	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C113	1-135-177-21	s	TANTALUM, CHIP 1uF 10% 25V
C114	1-135-166-21	s	TANTALUM, CHIP 47uF 10% 10V
C116	1-163-263-11	s	CERAMIC, CHIP 330PF 5% 50V
C117	1-163-245-11	s	CERAMIC, CHIP 56PF 5% 50V
C118	1-164-695-11	s	CERAMIC 0.0022uF 5% 50V
C119	1-164-695-11	s	CERAMIC 0.0022uF 5% 50V
C120	1-164-695-11	s	CERAMIC 0.0022uF 5% 50V
C122	1-135-157-21	s	TANTAL 10uF 10% 6.3V
C123	1-135-177-21	s	TANTALUM, CHIP 1uF 10% 25V
C124	1-135-177-21	s	TANTALUM, CHIP 1uF 10% 25V
C127	1-163-022-00	s	CERAMIC, CHIP 0.012uF 10% 50V
C130	1-164-695-11	s	CERAMIC 0.0022uF 5% 50V
C131	1-164-695-11	s	CERAMIC 0.0022uF 5% 50V
C132	1-164-695-11	s	CERAMIC 0.0022uF 5% 50V
C133	1-135-177-21	s	TANTALUM, CHIP 1uF 10% 25V
C134	1-135-179-21	s	TANTAL 2.2uF 10% 16V
C135	1-135-140-11	s	TANTAL 15uF 10% 20V
C136	1-135-161-21	s	TANTALUM, CHIP 22uF 10% 10V
C137	1-135-161-21	s	TANTALUM, CHIP 22uF 10% 10V
C138	1-128-391-11	s	ELECT 330uF 20% 6.3V
C203	1-163-243-11	s	CERAMIC, CHIP 47PF 5% 50V
C206	1-135-161-21	s	TANTALUM, CHIP 22uF 10% 10V
C210	1-135-177-21	s	TANTALUM, CHIP 1uF 10% 25V
C212	1-135-161-21	s	TANTALUM, CHIP 22uF 10% 10V
C213	1-135-070-00	s	TANTALUM, CHIP 0.1uF 10% 35V
C214	1-135-177-21	s	TANTALUM, CHIP 1uF 10% 25V
C215	1-128-391-11	s	ELECT 330uF 20% 6.3V
C216	1-135-070-00	s	TANTALUM, CHIP 0.1uF 10% 35V
C217	1-164-695-11	s	CERAMIC 0.0022uF 5% 50V
C219	1-163-131-00	s	CERAMIC, CHIP 390PF 5% 50V
C220	1-135-177-21	s	TANTALUM, CHIP 1uF 10% 25V
C221	1-135-161-21	s	TANTALUM, CHIP 22uF 10% 10V
C224	1-135-164-21	s	TANTALUM, CHIP 22uF 20% 10V
C225	1-135-164-21	s	TANTALUM, CHIP 22uF 20% 10V
C303	1-163-243-11	s	CERAMIC, CHIP 47PF 5% 50V
C306	1-135-161-21	s	TANTALUM, CHIP 22uF 10% 10V
C310	1-135-177-21	s	TANTALUM, CHIP 1uF 10% 25V
C312	1-135-161-21	s	TANTALUM, CHIP 22uF 10% 10V
C313	1-135-070-00	s	TANTALUM, CHIP 0.1uF 10% 35V
C314	1-135-177-21	s	TANTALUM, CHIP 1uF 10% 25V
C315	1-128-391-11	s	ELECT 330uF 20% 6.3V
C316	1-135-070-00	s	TANTALUM, CHIP 0.1uF 10% 35V
C317	1-164-695-11	s	CERAMIC 0.0022uF 5% 50V
C319	1-163-131-00	s	CERAMIC, CHIP 390PF 5% 50V
C320	1-135-177-21	s	TANTALUM, CHIP 1uF 10% 25V
C321	1-135-161-21	s	TANTALUM, CHIP 22uF 10% 10V
C324	1-135-164-21	s	TANTALUM, CHIP 22uF 20% 10V
C325	1-135-164-21	s	TANTALUM, CHIP 22uF 20% 10V
C403	1-163-243-11	s	CERAMIC, CHIP 47PF 5% 50V
C406	1-135-161-21	s	TANTALUM, CHIP 22uF 10% 10V
C410	1-135-177-21	s	TANTALUM, CHIP 1uF 10% 25V
C412	1-135-177-21	s	TANTALUM, CHIP 1uF 10% 25V
C413	1-135-070-00	s	TANTALUM, CHIP 0.1uF 10% 35V
C414	1-135-177-21	s	TANTALUM, CHIP 1uF 10% 25V
C415	1-128-391-11	s	ELECT 330uF 20% 6.3V
C416	1-163-239-11	s	CERAMIC, CHIP 33PF 5% 50V
C417	1-135-070-00	s	TANTALUM, CHIP 0.1uF 10% 35V
C419	1-163-131-00	s	CERAMIC, CHIP 390PF 5% 50V
C420	1-164-695-11	s	CERAMIC 0.0022uF 5% 50V
C421	1-135-161-21	s	TANTALUM, CHIP 22uF 10% 10V
C422	1-163-011-11	s	CERAMIC, CHIP 0.0015uF 10% 50V
C503	1-163-243-11	s	CERAMIC, CHIP 47PF 5% 50V
C506	1-135-161-21	s	TANTALUM, CHIP 22uF 10% 10V
C510	1-135-177-21	s	TANTALUM, CHIP 1uF 10% 25V
C512	1-135-177-21	s	TANTALUM, CHIP 1uF 10% 25V
C513	1-135-070-00	s	TANTALUM, CHIP 0.1uF 10% 35V
C514	1-135-177-21	s	TANTALUM, CHIP 1uF 10% 25V
C515	1-128-391-11	s	ELECT 330uF 20% 6.3V
C516	1-163-239-11	s	CERAMIC, CHIP 33PF 5% 50V
C517	1-135-070-00	s	TANTALUM, CHIP 0.1uF 10% 35V
C519	1-163-131-00	s	CERAMIC, CHIP 390PF 5% 50V
C520	1-164-695-11	s	CERAMIC 0.0022uF 5% 50V
C521	1-135-161-21	s	TANTALUM, CHIP 22uF 10% 10V
C522	1-163-011-11	s	CERAMIC, CHIP 0.0015uF 10% 50V
C603	1-163-222-11	s	CERAMIC 5PF 0.25PF 50V

NOTE : Please see page 1-11 for the parts that are not listed in the parts list.

(AT-88 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C1014	1-126-395-11	s	ELECT 22uF 20% 16V
C1015	1-126-395-11	s	ELECT 22uF 20% 16V
C1021	1-163-104-00	s	CERAMIC, CHIP 30PF 5% 50V
C1023	1-163-104-00	s	CERAMIC, CHIP 30PF 5% 50V
C1050	1-135-157-21	s	TANTAL 10uF 10% 6.3V
C1051	1-163-239-11	s	CERAMIC, CHIP 33PF 5% 50V
C1054	1-126-391-11	s	ELECT 47uF 20% 6.3V
C1055	1-163-239-11	s	CERAMIC, CHIP 33PF 5% 50V
C1060	1-163-275-11	s	CERAMIC 0.001uF 5% 50V
C1061	1-135-157-21	s	TANTAL 10uF 10% 6.3V
C1065	1-135-076-21	s	TANTALUM, CHIP 1uF 10% 35V
C1066	1-135-076-21	s	TANTALUM, CHIP 1uF 10% 35V
C1067	1-135-076-21	s	TANTALUM, CHIP 1uF 10% 35V
C1068	1-135-076-21	s	TANTALUM, CHIP 1uF 10% 35V
C1069	1-163-231-11	s	CERAMIC, CHIP 15PF 5% 50V
C1070	1-163-231-11	s	CERAMIC, CHIP 15PF 5% 50V
C1071	1-163-104-00	s	CERAMIC, CHIP 30PF 5% 50V
C1072	1-163-104-00	s	CERAMIC, CHIP 30PF 5% 50V
C1073	1-163-104-00	s	CERAMIC, CHIP 30PF 5% 50V
C1074	1-163-104-00	s	CERAMIC, CHIP 30PF 5% 50V
C1075	1-163-104-00	s	CERAMIC, CHIP 30PF 5% 50V
C1076	1-163-104-00	s	CERAMIC, CHIP 30PF 5% 50V
C1077	1-163-104-00	s	CERAMIC, CHIP 30PF 5% 50V
C1118	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C1124	1-163-239-11	s	CERAMIC, CHIP 33PF 5% 50V
C1125	1-163-239-11	s	CERAMIC, CHIP 33PF 5% 50V
C1128	1-163-239-11	s	CERAMIC, CHIP 33PF 5% 50V
C1129	1-163-239-11	s	CERAMIC, CHIP 33PF 5% 50V
C1132	1-163-245-11	s	CERAMIC, CHIP 56PF 5% 50V
C1133	1-163-245-11	s	CERAMIC, CHIP 56PF 5% 50V
C1134	1-163-229-11	s	CERAMIC 12PF 5% 50V
C1135	1-163-229-11	s	CERAMIC 12PF 5% 50V
C1201	1-163-127-00	s	CERAMIC, CHIP 270PF 5% 50V
C2001	1-126-391-11	s	ELECT 47uF 20% 6.3V
C2003	1-126-391-11	s	ELECT 47uF 20% 6.3V
C2006	1-126-390-11	s	ELECT, CHIP 22uF 20% 6.3V
C2007	1-126-390-11	s	ELECT, CHIP 22uF 20% 6.3V
C2031	1-126-390-11	s	ELECT, CHIP 22uF 20% 6.3V
C2032	1-126-390-11	s	ELECT, CHIP 22uF 20% 6.3V
C2060	1-126-391-11	s	ELECT 47uF 20% 6.3V
C2061	1-126-391-11	s	ELECT 47uF 20% 6.3V
C2062	1-163-037-11	s	CERAMIC, CHIP 0.022uF 10% 25V
C2063	1-126-391-11	s	ELECT 47uF 20% 6.3V
C2081	1-126-391-11	s	ELECT 47uF 20% 6.3V
C2083	1-126-391-11	s	ELECT 47uF 20% 6.3V
C2086	1-126-390-11	s	ELECT, CHIP 22uF 20% 6.3V
C2087	1-126-390-11	s	ELECT, CHIP 22uF 20% 6.3V
C2121	1-126-391-11	s	ELECT 47uF 20% 6.3V
C2123	1-126-391-11	s	ELECT 47uF 20% 6.3V
C2126	1-126-390-11	s	ELECT, CHIP 22uF 20% 6.3V
C2127	1-126-390-11	s	ELECT, CHIP 22uF 20% 6.3V
C2151	1-126-390-11	s	ELECT, CHIP 22uF 20% 6.3V
C2152	1-126-390-11	s	ELECT, CHIP 22uF 20% 6.3V
C2211	1-123-566-00	s	ELECT 2200uF 20% 16V
C2212	1-123-566-00	s	ELECT 2200uF 20% 16V
C2213	1-126-395-11	s	ELECT 22uF 20% 16V
C2214	1-126-395-11	s	ELECT 22uF 20% 16V
C2215	1-126-395-11	s	ELECT 22uF 20% 16V
C2216	1-126-395-11	s	ELECT 22uF 20% 16V

(AT-88 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C2217	1-135-165-11	s	TANTALUM, CHIP 33uF 10% 16V
C2218	1-135-165-11	s	TANTALUM, CHIP 33uF 10% 16V
C2241	1-135-155-21	s	TANTALUM, CHIP 4.7uF 10% 16V
C2242	1-128-397-21	s	ELECT 100uF 20% 16V
C2243	1-128-397-21	s	ELECT 100uF 20% 16V
C2244	1-126-395-11	s	ELECT 22uF 20% 16V
C2245	1-126-395-11	s	ELECT 22uF 20% 16V
C2252	1-135-155-21	s	TANTALUM, CHIP 4.7uF 10% 16V
C2253	1-128-397-21	s	ELECT 100uF 20% 16V
C2254	1-128-397-21	s	ELECT 100uF 20% 16V
C2271	1-128-397-21	s	ELECT 100uF 20% 16V
C2272	1-128-397-21	s	ELECT 100uF 20% 16V
C2273	1-128-397-21	s	ELECT 100uF 20% 16V
C2274	1-128-397-21	s	ELECT 100uF 20% 16V
C2275	1-126-395-11	s	ELECT 22uF 20% 16V
C2276	1-126-395-11	s	ELECT 22uF 20% 16V
C2301	1-126-395-11	s	ELECT 22uF 20% 16V
C2302	1-126-395-11	s	ELECT 22uF 20% 16V
C2341	1-126-390-11	s	ELECT, CHIP 22uF 20% 6.3V
C2342	1-126-390-11	s	ELECT, CHIP 22uF 20% 6.3V
C2343	1-126-390-11	s	ELECT, CHIP 22uF 20% 6.3V
C2344	1-126-390-11	s	ELECT, CHIP 22uF 20% 6.3V
C2381	1-126-395-11	s	ELECT 22uF 20% 16V
C2382	1-126-395-11	s	ELECT 22uF 20% 16V
C2383	1-163-231-11	s	CERAMIC, CHIP 15PF 5% 50V
C2384	1-128-397-21	s	ELECT 100uF 20% 16V
C2385	1-128-397-21	s	ELECT 100uF 20% 16V
C2386	1-128-397-21	s	ELECT 100uF 20% 16V
C2387	1-128-397-21	s	ELECT 100uF 20% 16V
C2388	1-126-390-11	s	ELECT, CHIP 22uF 20% 6.3V
C2389	1-126-390-11	s	ELECT, CHIP 22uF 20% 6.3V
C2451	1-123-566-00	s	ELECT 2200uF 20% 16V
C2452	1-123-566-00	s	ELECT 2200uF 20% 16V
C2453	1-126-395-11	s	ELECT 22uF 20% 16V
C2454	1-126-395-11	s	ELECT 22uF 20% 16V
C2455	1-126-395-11	s	ELECT 22uF 20% 16V
C2456	1-126-395-11	s	ELECT 22uF 20% 16V
C2457	1-135-165-11	s	TANTALUM, CHIP 33uF 10% 16V
C2458	1-135-165-11	s	TANTALUM, CHIP 33uF 10% 16V
C2541	1-135-155-21	s	TANTALUM, CHIP 4.7uF 10% 16V
C2542	1-128-397-21	s	ELECT 100uF 20% 16V
C2543	1-128-397-21	s	ELECT 100uF 20% 16V
C2544	1-126-395-11	s	ELECT 22uF 20% 16V
C2545	1-126-395-11	s	ELECT 22uF 20% 16V
C2546	1-135-155-21	s	TANTALUM, CHIP 4.7uF 10% 16V
C2547	1-128-397-21	s	ELECT 100uF 20% 16V
C2548	1-128-397-21	s	ELECT 100uF 20% 16V
C2581	1-128-397-21	s	ELECT 100uF 20% 16V
C2582	1-128-397-21	s	ELECT 100uF 20% 16V
C2583	1-128-397-21	s	ELECT 100uF 20% 16V
C2584	1-128-397-21	s	ELECT 100uF 20% 16V
C2585	1-126-395-11	s	ELECT 22uF 20% 16V
C2586	1-126-395-11	s	ELECT 22uF 20% 16V
C2701	1-126-396-11	s	ELECT, CHIP 47uF 20% 16V
C2702	1-126-396-11	s	ELECT, CHIP 47uF 20% 16V
C2703	1-126-391-11	s	ELECT 47uF 20% 6.3V
C2704	1-126-391-11	s	ELECT 47uF 20% 6.3V
C2705	1-126-391-11	s	ELECT 47uF 20% 6.3V
C2706	1-126-391-11	s	ELECT 47uF 20% 6.3V

NOTE : Please see page 1-11 for the parts that are not listed in the parts list.

(AT-88 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C2707	1-126-396-11	s	ELECT, CHIP 47uF 20% 16V
C2708	1-126-396-11	s	ELECT, CHIP 47uF 20% 16V
C2709	1-135-125-21	s	TANTAL 33uF 20% 10V
C2710	1-126-391-11	s	ELECT 47uF 20% 6.3V
C2711	1-126-391-11	s	ELECT 47uF 20% 6.3V
C2712	1-126-396-11	s	ELECT, CHIP 47uF 20% 16V
C2713	1-126-396-11	s	ELECT, CHIP 47uF 20% 16V
C2714	1-135-161-21	s	TANTALUM, CHIP 22uF 10% 10V
C2751	1-126-391-11	s	ELECT 47uF 20% 6.3V
C2752	1-126-391-11	s	ELECT 47uF 20% 6.3V
C2753	1-135-125-21	s	TANTAL 33uF 20% 10V
C2755	1-126-391-11	s	ELECT 47uF 20% 6.3V
C2791	1-163-033-00	s	CERAMIC, CHIP 0.022uF 50V
C2792	1-163-033-00	s	CERAMIC, CHIP 0.022uF 50V
C2821	1-163-033-00	s	CERAMIC, CHIP 0.022uF 50V
C2822	1-163-033-00	s	CERAMIC, CHIP 0.022uF 50V
C2829	1-126-391-11	s	ELECT 47uF 20% 6.3V
C2830	1-126-400-11	s	ELECT, CHIP 22uF 20% 35V
C2831	1-135-166-21	s	TANTALUM, CHIP 47uF 10% 10V
C2832	1-164-182-11	s	CERAMIC, CHIP 0.0033uF 10% 100V
C2833	1-164-182-11	s	CERAMIC, CHIP 0.0033uF 10% 100V
C2840	1-126-391-11	s	ELECT 47uF 20% 6.3V
C2841	1-135-076-21	s	TANTALUM, CHIP 1uF 10% 35V
C2842	1-135-076-21	s	TANTALUM, CHIP 1uF 10% 35V
C2843	1-135-166-21	s	TANTALUM, CHIP 47uF 10% 10V
CF41	1-760-443-11	s	FILTER, CERAMIC 3.600MHz
CF61	1-760-444-11	s	FILTER, CERAMIC 3.900MHz
CF81	1-760-445-11	s	FILTER, CERAMIC 4.300MHz
CF101	1-760-446-11	s	FILTER, CERAMIC 5.600MHz
CF102	1-760-446-11	s	FILTER, CERAMIC 5.600MHz
CF201	1-760-447-11	s	FILTER, CERAMIC 6.200MHz
CF202	1-760-447-11	s	FILTER, CERAMIC 6.200MHz
CF301	1-578-067-11	s	FILTER, CERAMIC 6.700MHz
CF302	1-578-067-11	s	FILTER, CERAMIC 6.700MHz
CF401	1-578-068-12	s	FILTER, CERAMIC 7.100MHz
CF402	1-578-068-12	s	FILTER, CERAMIC 7.100MHz
CF501	1-578-069-11	s	FILTER, CERAMIC 7.400MHz
CF502	1-578-069-11	s	FILTER, CERAMIC 7.400MHz
CN1	1-774-668-11	o	CONNECTOR, BOARD TO BOARD 96P
CN2	1-774-668-11	o	CONNECTOR, BOARD TO BOARD 96P
CP1001	1-760-437-11	s	VCO, CRYSTAL 18.00MHz
D1	8-719-800-76	s	DIODE 1SS226
D2	8-719-041-39	s	DIODE KV1470
D21	8-719-800-76	s	DIODE 1SS226
D22	8-719-041-39	s	DIODE KV1470
D23	8-719-800-76	s	DIODE 1SS226
D41	8-719-800-76	s	DIODE 1SS226
D42	8-719-041-39	s	DIODE KV1470
D43	8-719-800-76	s	DIODE 1SS226
D61	8-719-800-76	s	DIODE 1SS226
D62	8-719-041-39	s	DIODE KV1470
D63	8-719-800-76	s	DIODE 1SS226
D81	8-719-800-76	s	DIODE 1SS226
D82	8-719-041-39	s	DIODE KV1470
D83	8-719-800-76	s	DIODE 1SS226
D201	8-719-157-23	s	DIODE RD4.7M-B
D202	8-719-104-34	s	DIODE 1S2836

(AT-88 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
D301	8-719-157-23	s	DIODE RD4.7M-B
D601	8-719-911-19	s	DIODE 1SS119
D602	8-719-911-19	s	DIODE 1SS119
D1001	8-719-948-47	s	DIODE HSM88AS
D1002	8-719-947-01	s	DIODE FMP1
D1003	8-719-947-01	s	DIODE FMP1
D1004	8-719-947-01	s	DIODE FMP1
D1005	8-719-947-01	s	DIODE FMP1
D2001	8-719-159-85	s	DIODE RD2.0M-B
D2002	8-719-159-85	s	DIODE RD2.0M-B
D2061	8-719-801-78	s	DIODE 1SS184
D2062	8-719-801-78	s	DIODE 1SS184
D2063	8-719-800-76	s	DIODE 1SS226
D2064	8-719-801-78	s	DIODE 1SS184
D2065	8-719-801-78	s	DIODE 1SS184
D2066	8-719-801-78	s	DIODE 1SS184
D2067	8-719-104-34	s	DIODE 1S2836
D2081	8-719-159-85	s	DIODE RD2.0M-B
D2082	8-719-159-85	s	DIODE RD2.0M-B
D2121	8-719-159-85	s	DIODE RD2.0M-B
D2122	8-719-159-85	s	DIODE RD2.0M-B
D2181	8-719-159-85	s	DIODE RD2.0M-B
D2182	8-719-159-85	s	DIODE RD2.0M-B
D2301	8-719-801-78	s	DIODE 1SS184
D2302	8-719-801-78	s	DIODE 1SS184
D2303	8-719-104-34	s	DIODE 1S2836
D2305	8-719-801-78	s	DIODE 1SS184
D2306	8-719-159-85	s	DIODE RD2.0M-B
D2307	8-719-159-85	s	DIODE RD2.0M-B
D2421	8-719-159-85	s	DIODE RD2.0M-B
D2422	8-719-159-85	s	DIODE RD2.0M-B
D2701	8-719-974-41	s	DIODE HLMP-6500-010
D2702	8-719-974-41	s	DIODE HLMP-6500-010
D2703	8-719-974-41	s	DIODE HLMP-6500-010
D2704	8-719-974-41	s	DIODE HLMP-6500-010
D2705	8-719-157-23	s	DIODE RD4.7M-B
D2706	8-719-157-23	s	DIODE RD4.7M-B
D2707	8-759-274-67	s	IC LM4040BIM3X-5.0
D2708	8-719-106-53	s	DIODE RD10M-B2
D2709	8-719-106-53	s	DIODE RD10M-B2
D2751	8-719-157-23	s	DIODE RD4.7M-B
D2791	8-719-104-34	s	DIODE 1S2836
D2792	8-719-801-78	s	DIODE 1SS184
D2793	8-719-021-31	s	DIODE UZM5.1B
D2821	8-719-104-34	s	DIODE 1S2836
D2822	8-719-801-78	s	DIODE 1SS184
D2823	8-719-021-31	s	DIODE UZM5.1B
D2830	8-719-801-78	s	DIODE 1SS184
D2831	8-719-104-34	s	DIODE 1S2836
D2833	8-719-104-34	s	DIODE 1S2836
D2840	8-719-801-78	s	DIODE 1SS184
D2841	8-719-159-85	s	DIODE RD2.0M-B
E1	3-673-772-01	s	TERMINAL, TP
E2	3-673-772-01	s	TERMINAL, TP
E10	3-673-772-01	s	TERMINAL, TP
E11	3-673-772-01	s	TERMINAL, TP
E12	3-673-772-01	s	TERMINAL, TP
E20	3-673-772-01	s	TERMINAL, TP

NOTE : Please see page 1-11 for the parts that are not listed in the parts list.

(AT-88 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
E1000	3-673-772-01	s	TERMINAL, TP
F1	⚠ 1-576-225-41	s	FUSE (H.B.C.)
F2	⚠ 1-576-225-41	s	FUSE (H.B.C.)
F3	⚠ 1-576-225-41	s	FUSE (H.B.C.)
F4	⚠ 1-576-225-41	s	FUSE (H.B.C.)
F5	⚠ 1-576-225-41	s	FUSE (H.B.C.)
F6	⚠ 1-576-225-41	s	FUSE (H.B.C.)
FL1	1-239-940-11	s	FILTER, BAND PASS 2.5MHz
FL21	1-239-941-11	s	FILTER, BAND PASS 3.0MHz
FL601	1-417-189-11	s	SEPARATOR
IC101	8-759-271-14	s	IC TA8129Z
IC102	8-759-906-53	s	IC TL062CPS
IC103	8-759-085-67	s	IC LM339NS
IC104	8-759-906-53	s	IC TL062CPS
IC105	8-759-710-52	s	IC NJM567M
IC201	8-759-812-35	s	IC LA1235
IC202	8-759-369-73	s	IC NJM4556AM
IC301	8-759-812-35	s	IC LA1235
IC302	8-759-369-73	s	IC NJM4556AM
IC401	8-759-812-35	s	IC LA1235
IC402	8-759-906-53	s	IC TL062CPS
IC501	8-759-812-35	s	IC LA1235
IC502	8-759-906-53	s	IC TL062CPS
IC600	8-759-054-61	s	IC CLC505AJE
IC1001	8-759-637-07	s	IC M62021FP
IC1002	8-759-388-16	o	IC HD6435328RE49F
IC1003	8-759-285-08	s	IC CXD8344AQ
IC1004	8-759-463-61	o	IC 27C010A-CCU700A-V2.30
IC1005	8-759-299-40	s	IC AM28F010-120EC
IC1006	8-752-373-04	s	IC CXK581000ATM-10LL
IC1007	8-759-720-87	s	IC HN58C257T
IC1008	8-759-720-87	s	IC HN58C257T
IC1009	8-759-064-65	s	IC TMP82C265BF-2
IC1010	8-759-285-09	s	IC CXD8892Q
IC1011	8-759-277-99	s	IC CXD8889R
IC1012	8-759-277-99	s	IC CXD8889R
IC1013	8-759-277-99	s	IC CXD8889R
IC1017	8-759-926-07	s	IC SN74HC132ANS
IC1018	8-759-092-81	s	IC SN75158PS
IC1019	8-759-925-85	s	IC SN74HC32ANS
IC1020	8-759-031-84	s	IC SC7S04F
IC1022	8-759-031-84	s	IC SC7S04F
IC1024	8-759-037-79	s	IC SN74HC163ANS
IC1025	8-759-031-84	s	IC SC7S04F
IC1026	8-759-234-20	s	IC TC7S08F
IC1027	8-759-242-76	s	IC TC7W08F
IC1028	8-759-035-93	s	IC TC7S32F
IC1034	8-759-149-05	s	IC UPD71051GB-10-3B4
IC1035	8-759-521-07	s	IC MAX238CWG
IC1036	8-759-242-74	s	IC TC7W04F
IC1037	8-759-926-98	s	IC SN74HC4040ANS
IC1038	8-759-238-51	s	IC TC74HC4051AF(EL)
IC1039	8-759-916-23	s	IC SN74HC27AN
IC1043	8-759-242-74	s	IC TC7W04F
IC1044	8-759-234-20	s	IC TC7S08F
IC1045	8-759-996-82	s	IC MSM82C55A-2GS
IC1046	8-759-031-84	s	IC SC7S04F

NOTE : Please see page 1-11 for the parts that are not listed in the parts list.

(AT-88 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
IC1047	8-759-242-78	s	IC TC7W02F
IC1048	8-759-234-20	s	IC TC7S08F
IC1109	8-759-285-08	s	IC CXD8344AQ
IC1110	8-759-009-02	s	IC MC14046BF
IC1111	8-759-242-74	s	IC TC7W04F
IC1112	8-759-242-74	s	IC TC7W04F
IC1113	8-759-078-75	s	IC UPD6453GT-610
IC1114	8-759-078-75	s	IC UPD6453GT-610
IC1200	8-759-008-88	s	IC MC14020BF
IC1201	8-759-009-82	s	IC MC14011BF-T2
IC1202	8-759-008-74	s	IC MC14001BF
IC1203	8-759-239-58	s	IC TC74HC221AF
IC2001	8-759-100-96	s	IC UPC4558G2
IC2002	8-759-300-71	s	IC MC14053BF
IC2003	8-759-300-71	s	IC MC14053BF
IC2004	8-759-100-96	s	IC UPC4558G2
IC2005	8-759-100-96	s	IC UPC4558G2
IC2006	8-759-209-57	s	IC TC4S69F
IC2061	8-759-009-51	s	IC MC14538BF
IC2062	8-759-234-13	s	IC TC4S30F
IC2063	8-759-009-82	s	IC MC14011BF-T2
IC2064	8-759-009-82	s	IC MC14011BF-T2
IC2065	8-759-009-82	s	IC MC14011BF-T2
IC2066	8-759-234-13	s	IC TC4S30F
IC2068	8-759-300-71	s	IC MC14053BF
IC2069	8-759-234-13	s	IC TC4S30F
IC2081	8-759-100-96	s	IC UPC4558G2
IC2082	8-759-100-96	s	IC UPC4558G2
IC2121	8-759-100-96	s	IC UPC4558G2
IC2122	8-759-300-71	s	IC MC14053BF
IC2141	8-759-300-71	s	IC MC14053BF
IC2142	8-759-100-96	s	IC UPC4558G2
IC2143	8-759-100-96	s	IC UPC4558G2
IC2181	8-759-100-96	s	IC UPC4558G2
IC2182	8-759-300-71	s	IC MC14053BF
IC2211	8-759-100-96	s	IC UPC4558G2
IC2212	8-759-369-73	s	IC NJM4556AM
IC2241	8-759-100-96	s	IC UPC4558G2
IC2242	8-759-369-73	s	IC NJM4556AM
IC2271	8-759-369-73	s	IC NJM4556AM
IC2301	8-759-300-71	s	IC MC14053BF
IC2302	8-759-300-71	s	IC MC14053BF
IC2303	8-759-700-09	s	IC NJM2043M-D
IC2342	8-759-300-71	s	IC MC14053BF
IC2343	8-759-100-96	s	IC UPC4558G2
IC2381	8-759-100-96	s	IC UPC4558G2
IC2382	8-759-369-73	s	IC NJM4556AM
IC2421	8-759-100-96	s	IC UPC4558G2
IC2422	8-759-300-71	s	IC MC14053BF
IC2451	8-759-100-96	s	IC UPC4558G2
IC2452	8-759-369-73	s	IC NJM4556AM
IC2491	8-759-100-96	s	IC UPC4558G2
IC2492	8-759-369-73	s	IC NJM4556AM
IC2521	8-759-369-73	s	IC NJM4556AM
IC2701	8-759-906-53	s	IC TL062CPS
IC2702	8-759-906-53	s	IC TL062CPS
IC2751	8-759-906-53	s	IC TL062CPS
IC2810	8-759-234-13	s	IC TC4S30F
IC2830	8-759-711-58	s	IC NJM78L05UA

(AT-88 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
IC2840	8-759-009-82	s	IC MC14011BF-T2
IS1004	1-526-660-21	s	SOCKET, IC (DP) 32P
L1	1-408-777-00	s	INDUCTOR CHIP 10uH
L21	1-408-777-00	s	INDUCTOR CHIP 10uH
L41	1-408-777-00	s	INDUCTOR CHIP 10uH
L71	1-408-777-00	s	INDUCTOR CHIP 10uH
L81	1-408-777-00	s	INDUCTOR CHIP 10uH
L101	1-408-777-00	s	INDUCTOR CHIP 10uH
L102	1-408-777-00	s	INDUCTOR CHIP 10uH
L103	1-410-145-11	s	MICRO INDUCTOR 18uH
L201	1-408-777-00	s	INDUCTOR CHIP 10uH
L202	1-408-777-00	s	INDUCTOR CHIP 10uH
L203	1-410-148-11	s	MICRO INDUCTOR 33uH
L204	1-410-144-11	s	MICRO INDUCTOR 15uH
L301	1-408-777-00	s	INDUCTOR CHIP 10uH
L302	1-408-777-00	s	INDUCTOR CHIP 10uH
L303	1-410-148-11	s	MICRO INDUCTOR 33uH
L304	1-410-143-11	s	MICRO INDUCTOR 12uH
L401	1-408-777-00	s	INDUCTOR CHIP 10uH
L402	1-408-777-00	s	INDUCTOR CHIP 10uH
L403	1-410-148-11	s	MICRO INDUCTOR 33uH
L404	1-410-142-11	s	MICRO INDUCTOR 10uH
L501	1-408-777-00	s	INDUCTOR CHIP 10uH
L502	1-408-777-00	s	INDUCTOR CHIP 10uH
L503	1-410-148-11	s	MICRO INDUCTOR 33uH
L504	1-410-142-11	s	MICRO INDUCTOR 10uH
L601	1-408-777-00	s	INDUCTOR CHIP 10uH
L602	1-408-777-00	s	INDUCTOR CHIP 10uH
L1001	1-412-032-11	s	INDUCTOR CHIP 100uH
L1002	1-410-988-11	s	INDUCTOR CHIP 0.39uH
L1003	1-408-781-00	s	INDUCTOR CHIP 22uH
L1102	1-410-988-11	s	INDUCTOR CHIP 0.39uH
L1103	1-410-988-11	s	INDUCTOR CHIP 0.39uH
L1104	1-410-988-11	s	INDUCTOR CHIP 0.39uH
L1105	1-410-988-11	s	INDUCTOR CHIP 0.39uH
L1106	1-410-988-11	s	INDUCTOR CHIP 0.39uH
L1107	1-410-988-11	s	INDUCTOR CHIP 0.39uH
L1108	1-410-988-11	s	INDUCTOR CHIP 0.39uH
L1109	1-410-988-11	s	INDUCTOR CHIP 0.39uH
L1110	1-408-781-00	s	INDUCTOR CHIP 22uH
L1111	1-410-988-11	s	INDUCTOR CHIP 0.39uH
L1112	1-410-988-11	s	INDUCTOR CHIP 0.39uH
L1113	1-410-988-11	s	INDUCTOR CHIP 0.39uH
L1114	1-410-988-11	s	INDUCTOR CHIP 0.39uH
L1115	1-410-988-11	s	INDUCTOR CHIP 0.39uH
L1116	1-410-988-11	s	INDUCTOR CHIP 0.39uH
L1117	1-410-988-11	s	INDUCTOR CHIP 0.39uH
L1118	1-410-988-11	s	INDUCTOR CHIP 0.39uH
L1119	1-410-988-11	s	INDUCTOR CHIP 0.39uH
L1120	1-410-988-11	s	INDUCTOR CHIP 0.39uH
L1121	1-410-988-11	s	INDUCTOR CHIP 0.39uH
L1122	1-408-784-11	s	INDUCTOR CHIP 39uH
L1123	1-410-988-11	s	INDUCTOR CHIP 0.39uH
L1124	1-408-784-11	s	INDUCTOR CHIP 39uH
L1125	1-410-988-11	s	INDUCTOR CHIP 0.39uH
L1126	1-410-988-11	s	INDUCTOR CHIP 0.39uH
L1127	1-410-988-11	s	INDUCTOR CHIP 0.39uH

(AT-88 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
L1128	1-410-988-11	s	INDUCTOR CHIP 0.39uH
L1129	1-410-988-11	s	INDUCTOR CHIP 0.39uH
L1130	1-410-988-11	s	INDUCTOR CHIP 0.39uH
L1131	1-408-782-11	s	INDUCTOR CHIP 27uH
L1132	1-408-782-11	s	INDUCTOR CHIP 27uH
L2001	1-408-781-00	s	INDUCTOR CHIP 22uH
L2002	1-408-781-00	s	INDUCTOR CHIP 22uH
L2003	1-408-781-00	s	INDUCTOR CHIP 22uH
L2081	1-408-781-00	s	INDUCTOR CHIP 22uH
L2082	1-408-781-00	s	INDUCTOR CHIP 22uH
L2121	1-408-781-00	s	INDUCTOR CHIP 22uH
L2122	1-408-781-00	s	INDUCTOR CHIP 22uH
L2181	1-408-781-00	s	INDUCTOR CHIP 22uH
L2182	1-408-781-00	s	INDUCTOR CHIP 22uH
L2301	1-408-781-00	s	INDUCTOR CHIP 22uH
L2302	1-408-781-00	s	INDUCTOR CHIP 22uH
L2421	1-408-781-00	s	INDUCTOR CHIP 22uH
L2422	1-408-781-00	s	INDUCTOR CHIP 22uH
L2701	1-414-529-21	s	INDUCTOR(POWER) 100uH
L2702	1-414-529-21	s	INDUCTOR(POWER) 100uH
L2703	1-414-529-21	s	INDUCTOR(POWER) 100uH
L2704	1-414-529-21	s	INDUCTOR(POWER) 100uH
L2751	1-414-529-21	s	INDUCTOR(POWER) 100uH
L2792	1-408-781-00	s	INDUCTOR CHIP 22uH
L2793	1-414-529-21	s	INDUCTOR(POWER) 100uH
L2840	1-408-781-00	s	INDUCTOR CHIP 22uH
L2841	1-408-781-00	s	INDUCTOR CHIP 22uH
LV1	1-459-890-11	s	COIL, VARIABLE
LV21	1-459-890-11	s	COIL, VARIABLE
LV41	1-459-890-11	s	COIL, VARIABLE
LV61	1-459-889-11	s	COIL, VARIABLE
LV81	1-459-889-11	s	COIL, VARIABLE
LV101	1-459-890-11	s	COIL, VARIABLE
PH1049	8-749-924-62	s	PNOTO COUPLER PC410
PH1050	8-749-924-62	s	PNOTO COUPLER PC410
PH1051	8-749-924-62	s	PNOTO COUPLER PC410
PH1052	8-749-924-62	s	PNOTO COUPLER PC410
PH2791	8-749-010-24	s	PHOTO CUPPLER PS2604L
PH2821	8-749-010-24	s	PHOTO CUPPLER PS2604L
Q1	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q2	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q21	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q22	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q41	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q42	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q61	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q62	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q81	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q82	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q101	8-729-200-87	s	TRANSISTOR 2SC2714Y
Q102	8-729-200-87	s	TRANSISTOR 2SC2714Y
Q103	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q104	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q105	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q201	8-729-200-87	s	TRANSISTOR 2SC2714Y
Q202	8-729-200-87	s	TRANSISTOR 2SC2714Y
Q203	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6

NOTE : Please see page 1-11 for the parts that are not listed in the parts list.

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(AT-88 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
Q204	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q301	8-729-200-87	s	TRANSISTOR 2SC2714Y
Q302	8-729-200-87	s	TRANSISTOR 2SC2714Y
Q303	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q304	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q401	8-729-200-87	s	TRANSISTOR 2SC2714Y
Q402	8-729-200-87	s	TRANSISTOR 2SC2714Y
Q403	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q501	8-729-200-87	s	TRANSISTOR 2SC2714Y
Q502	8-729-200-87	s	TRANSISTOR 2SC2714Y
Q503	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q1001	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q1002	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q1003	8-729-101-07	s	TRANSISTOR 2SB798
Q1004	8-729-920-34	s	TRANSISTOR DTC143XK
Q1010	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q1012	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q1103	8-729-216-22	s	TRANSISTOR 2SA1162
Q1104	8-729-216-22	s	TRANSISTOR 2SA1162
Q2211	8-729-216-22	s	TRANSISTOR 2SA1162
Q2212	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q2213	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q2241	8-729-216-22	s	TRANSISTOR 2SA1162
Q2242	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q2243	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q2271	8-729-216-22	s	TRANSISTOR 2SA1162
Q2272	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q2273	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q2421	8-729-216-22	s	TRANSISTOR 2SA1162
Q2422	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q2423	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q2424	8-729-216-22	s	TRANSISTOR 2SA1162
Q2425	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q2426	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q2521	8-729-216-22	s	TRANSISTOR 2SA1162
Q2522	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q2523	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q2701	8-729-101-07	s	TRANSISTOR 2SB798
Q2702	8-729-807-51	s	TRANSISTOR 2SD1623-S
Q2703	8-729-101-07	s	TRANSISTOR 2SB798
Q2704	8-729-807-51	s	TRANSISTOR 2SD1623-S
Q2751	8-729-101-07	s	TRANSISTOR 2SB798
Q2791	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q2821	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q2830	8-729-141-75	s	TRANSISTOR 2SD596DV345
Q2831	8-729-141-75	s	TRANSISTOR 2SD596DV345
Q2840	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q2841	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q2842	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
R1	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R2	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R3	1-216-659-11	s	METAL, CHIP 2.2K 0.5% 1/10W
R4	1-216-671-11	s	METAL, CHIP 6.8K 0.50% 1/10W
R5	1-208-812-11	s	METAL, CHIP 18K 0.50% 1/10W
R6	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R7	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R8	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R9	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R10	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W

(AT-88 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R11	1-208-822-11	s	METAL, CHIP 47K 0.50% 1/10W
R12	1-208-810-11	s	METAL, CHIP 15K 0.50% 1/10W
R13	1-208-822-11	s	METAL, CHIP 47K 0.50% 1/10W
R21	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R22	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R23	1-216-659-11	s	METAL, CHIP 2.2K 0.5% 1/10W
R24	1-216-671-11	s	METAL, CHIP 6.8K 0.50% 1/10W
R25	1-208-812-11	s	METAL, CHIP 18K 0.50% 1/10W
R26	1-216-659-11	s	METAL, CHIP 2.2K 0.5% 1/10W
R27	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R28	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R29	1-216-671-11	s	METAL, CHIP 6.8K 0.50% 1/10W
R30	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R31	1-216-677-11	s	METAL, CHIP 12K 0.5% 1/10W
R32	1-216-699-11	s	METAL, CHIP 100K 0.50% 1/10W
R33	1-216-674-11	s	METAL, CHIP 9.1K 0.5% 1/10W
R34	1-216-656-11	s	METAL 1.6K 0.50% 1/10W
R35	1-216-689-11	s	METAL, CHIP 39K 0.5% 1/10W
R41	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R42	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R43	1-216-659-11	s	METAL, CHIP 2.2K 0.5% 1/10W
R44	1-216-671-11	s	METAL, CHIP 6.8K 0.50% 1/10W
R45	1-208-812-11	s	METAL, CHIP 18K 0.50% 1/10W
R46	1-216-662-11	s	METAL 3K 0.50% 1/10W
R47	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R48	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R49	1-216-671-11	s	METAL, CHIP 6.8K 0.50% 1/10W
R50	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R51	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R52	1-216-677-11	s	METAL, CHIP 12K 0.5% 1/10W
R53	1-216-699-11	s	METAL, CHIP 100K 0.50% 1/10W
R54	1-216-674-11	s	METAL, CHIP 9.1K 0.5% 1/10W
R55	1-208-800-11	s	METAL, CHIP 5.6K 0.50% 1/10W
R61	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R62	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R63	1-216-659-11	s	METAL, CHIP 2.2K 0.5% 1/10W
R64	1-216-671-11	s	METAL, CHIP 6.8K 0.50% 1/10W
R65	1-208-812-11	s	METAL, CHIP 18K 0.50% 1/10W
R66	1-216-665-11	s	METAL, CHIP 3.9K 0.5% 1/10W
R67	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R68	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R69	1-216-671-11	s	METAL, CHIP 6.8K 0.50% 1/10W
R70	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R71	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R72	1-216-677-11	s	METAL, CHIP 12K 0.5% 1/10W
R73	1-216-699-11	s	METAL, CHIP 100K 0.50% 1/10W
R74	1-216-674-11	s	METAL, CHIP 9.1K 0.5% 1/10W
R75	1-208-800-11	s	METAL, CHIP 5.6K 0.50% 1/10W
R81	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R82	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R83	1-216-659-11	s	METAL, CHIP 2.2K 0.5% 1/10W
R84	1-216-671-11	s	METAL, CHIP 6.8K 0.50% 1/10W
R85	1-208-812-11	s	METAL, CHIP 18K 0.50% 1/10W
R86	1-216-660-11	s	METAL 2.4K 0.50% 1/10W
R87	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R88	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R89	1-216-671-11	s	METAL, CHIP 6.8K 0.50% 1/10W
R90	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R91	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W

NOTE : Please see page 1-11 for the parts that are not listed in the parts list.

(AT-88 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R92	1-216-677-11	s	METAL, CHIP 12K 0.5% 1/10W
R93	1-216-699-11	s	METAL, CHIP 100K 0.50% 1/10W
R94	1-216-674-11	s	METAL, CHIP 9.1K 0.5% 1/10W
R95	1-208-800-11	s	METAL, CHIP 5.6K 0.50% 1/10W
R101	1-216-646-11	s	METAL, CHIP 620 0.5% 1/10W
R102	1-216-646-11	s	METAL, CHIP 620 0.5% 1/10W
R103	1-216-663-11	s	METAL, CHIP 3.3K 0.5% 1/10W
R104	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R105	1-216-671-11	s	METAL, CHIP 6.8K 0.50% 1/10W
R106	1-216-646-11	s	METAL, CHIP 620 0.5% 1/10W
R107	1-216-665-11	s	METAL, CHIP 3.9K 0.5% 1/10W
R108	1-216-646-11	s	METAL, CHIP 620 0.5% 1/10W
R109	1-208-784-11	s	METAL, CHIP 1.2K 0.50% 1/10W
R111	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R112	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R113	1-208-810-11	s	METAL, CHIP 15K 0.50% 1/10W
R114	1-216-657-11	s	METAL, CHIP 1.8K 0.5% 1/10W
R115	1-216-677-11	s	METAL, CHIP 12K 0.5% 1/10W
R116	1-216-657-11	s	METAL, CHIP 1.8K 0.5% 1/10W
R117	1-208-799-11	s	METAL, CHIP 5.1K 0.50% 1/10W
R118	1-208-799-11	s	METAL, CHIP 5.1K 0.50% 1/10W
R119	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R120	1-208-810-11	s	METAL, CHIP 15K 0.50% 1/10W
R121	1-218-761-11	s	METAL 240K 0.50% 1/10W
R123	1-216-688-11	s	METAL, CHIP 36K 0.50% 1/10W
R124	1-216-685-11	s	METAL, CHIP 27K 0.5% 1/10W
R125	1-216-649-11	s	METAL, CHIP 820 0.50% 1/10W
R126	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R127	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R128	1-216-649-11	s	METAL, CHIP 820 0.50% 1/10W
R129	1-216-685-11	s	METAL, CHIP 27K 0.5% 1/10W
R130	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R131	1-208-822-11	s	METAL, CHIP 47K 0.50% 1/10W
R132	1-216-696-11	s	METAL 75K 0.50% 1/10W
R133	1-216-696-11	s	METAL 75K 0.50% 1/10W
R134	1-216-696-11	s	METAL 75K 0.50% 1/10W
R135	1-216-627-11	s	METAL, CHIP 100 0.50% 1/10W
R136	1-218-762-11	s	METAL, CHIP 270K 0.50% 1/10W
R137	1-216-699-11	s	METAL, CHIP 100K 0.50% 1/10W
R138	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R139	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R140	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R141	1-218-768-11	s	METAL 470K 0.50% 1/10W
R201	1-208-774-11	s	METAL, CHIP 470 0.50% 1/10W
R202	1-208-774-11	s	METAL, CHIP 470 0.50% 1/10W
R203	1-216-663-11	s	METAL, CHIP 3.3K 0.5% 1/10W
R204	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R205	1-216-671-11	s	METAL, CHIP 6.8K 0.50% 1/10W
R206	1-208-774-11	s	METAL, CHIP 470 0.50% 1/10W
R207	1-216-665-11	s	METAL, CHIP 3.9K 0.5% 1/10W
R208	1-208-774-11	s	METAL, CHIP 470 0.50% 1/10W
R209	1-208-800-11	s	METAL, CHIP 5.6K 0.50% 1/10W
R210	1-216-671-11	s	METAL, CHIP 6.8K 0.50% 1/10W
R211	1-216-685-11	s	METAL, CHIP 27K 0.5% 1/10W
R212	1-216-695-11	s	METAL, CHIP 68K 0.50% 1/10W
R213	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R214	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R215	1-216-661-11	s	METAL, CHIP 2.7K 0.5% 1/10W
R216	1-208-822-11	s	METAL, CHIP 47K 0.50% 1/10W

(AT-88 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R217	1-218-758-11	s	METAL, CHIP 180K 0.50% 1/10W
R218	1-208-803-11	s	METAL, CHIP 7.5K 0.50% 1/10W
R219	1-208-803-11	s	METAL, CHIP 7.5K 0.50% 1/10W
R220	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R221	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R222	1-216-678-11	s	METAL, CHIP 13K 0.50% 1/10W
R223	1-218-754-11	s	METAL 120K 0.50% 1/10W
R224	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R225	1-216-603-11	s	METAL, CHIP 10 0.50% 1/10W
R226	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R227	1-216-603-11	s	METAL, CHIP 10 0.50% 1/10W
R228	1-216-627-11	s	METAL, CHIP 100 0.50% 1/10W
R229	1-216-627-11	s	METAL, CHIP 100 0.50% 1/10W
R230	1-216-699-11	s	METAL, CHIP 100K 0.50% 1/10W
R231	1-216-699-11	s	METAL, CHIP 100K 0.50% 1/10W
R301	1-208-774-11	s	METAL, CHIP 470 0.50% 1/10W
R302	1-208-774-11	s	METAL, CHIP 470 0.50% 1/10W
R303	1-216-663-11	s	METAL, CHIP 3.3K 0.5% 1/10W
R304	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R305	1-216-671-11	s	METAL, CHIP 6.8K 0.50% 1/10W
R306	1-208-774-11	s	METAL, CHIP 470 0.50% 1/10W
R307	1-216-665-11	s	METAL, CHIP 3.9K 0.5% 1/10W
R308	1-208-774-11	s	METAL, CHIP 470 0.50% 1/10W
R309	1-208-799-11	s	METAL, CHIP 5.1K 0.50% 1/10W
R310	1-208-800-11	s	METAL, CHIP 5.6K 0.50% 1/10W
R311	1-216-685-11	s	METAL, CHIP 27K 0.5% 1/10W
R312	1-216-695-11	s	METAL, CHIP 68K 0.50% 1/10W
R313	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R314	1-216-666-11	s	METAL, CHIP 4.3K 0.5% 1/10W
R315	1-216-661-11	s	METAL, CHIP 2.7K 0.5% 1/10W
R316	1-208-822-11	s	METAL, CHIP 47K 0.50% 1/10W
R317	1-218-758-11	s	METAL, CHIP 180K 0.50% 1/10W
R318	1-208-803-11	s	METAL, CHIP 7.5K 0.50% 1/10W
R319	1-208-803-11	s	METAL, CHIP 7.5K 0.50% 1/10W
R320	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R321	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R322	1-216-678-11	s	METAL, CHIP 13K 0.50% 1/10W
R323	1-218-754-11	s	METAL 120K 0.50% 1/10W
R324	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R325	1-216-603-11	s	METAL, CHIP 10 0.50% 1/10W
R326	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R327	1-216-603-11	s	METAL, CHIP 10 0.50% 1/10W
R328	1-216-627-11	s	METAL, CHIP 100 0.50% 1/10W
R329	1-216-627-11	s	METAL, CHIP 100 0.50% 1/10W
R330	1-216-699-11	s	METAL, CHIP 100K 0.50% 1/10W
R331	1-216-699-11	s	METAL, CHIP 100K 0.50% 1/10W
R401	1-208-774-11	s	METAL, CHIP 470 0.50% 1/10W
R402	1-208-774-11	s	METAL, CHIP 470 0.50% 1/10W
R403	1-216-663-11	s	METAL, CHIP 3.3K 0.5% 1/10W
R404	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R405	1-216-671-11	s	METAL, CHIP 6.8K 0.50% 1/10W
R406	1-208-774-11	s	METAL, CHIP 470 0.50% 1/10W
R407	1-216-665-11	s	METAL, CHIP 3.9K 0.5% 1/10W
R408	1-208-774-11	s	METAL, CHIP 470 0.50% 1/10W
R409	1-216-665-11	s	METAL, CHIP 3.9K 0.5% 1/10W
R410	1-216-671-11	s	METAL, CHIP 6.8K 0.50% 1/10W
R411	1-216-685-11	s	METAL, CHIP 27K 0.5% 1/10W
R412	1-216-695-11	s	METAL, CHIP 68K 0.50% 1/10W
R413	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W

NOTE : Please see page 1-11 for the parts that are not listed in the parts list.

(AT-88 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R414	1-216-663-11	s	METAL, CHIP 3.3K 0.5% 1/10W
R415	1-216-661-11	s	METAL, CHIP 2.7K 0.5% 1/10W
R416	1-216-685-11	s	METAL, CHIP 27K 0.5% 1/10W
R417	1-216-682-11	s	METAL, CHIP 20K 0.5% 1/10W
R418	1-216-682-11	s	METAL, CHIP 20K 0.5% 1/10W
R419	1-216-695-11	s	METAL, CHIP 68K 0.50% 1/10W
R420	1-216-671-11	s	METAL, CHIP 6.8K 0.50% 1/10W
R421	1-216-677-11	s	METAL, CHIP 12K 0.5% 1/10W
R501	1-208-774-11	s	METAL, CHIP 470 0.50% 1/10W
R502	1-208-774-11	s	METAL, CHIP 470 0.50% 1/10W
R503	1-216-663-11	s	METAL, CHIP 3.3K 0.5% 1/10W
R504	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R505	1-216-671-11	s	METAL, CHIP 6.8K 0.50% 1/10W
R506	1-208-774-11	s	METAL, CHIP 470 0.50% 1/10W
R507	1-216-665-11	s	METAL, CHIP 3.9K 0.5% 1/10W
R508	1-208-774-11	s	METAL, CHIP 470 0.50% 1/10W
R509	1-216-665-11	s	METAL, CHIP 3.9K 0.5% 1/10W
R510	1-216-671-11	s	METAL, CHIP 6.8K 0.50% 1/10W
R511	1-216-685-11	s	METAL, CHIP 27K 0.5% 1/10W
R512	1-216-695-11	s	METAL, CHIP 68K 0.50% 1/10W
R513	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R514	1-216-663-11	s	METAL, CHIP 3.3K 0.5% 1/10W
R515	1-216-661-11	s	METAL, CHIP 2.7K 0.5% 1/10W
R516	1-216-685-11	s	METAL, CHIP 27K 0.5% 1/10W
R517	1-216-682-11	s	METAL, CHIP 20K 0.5% 1/10W
R518	1-216-682-11	s	METAL, CHIP 20K 0.5% 1/10W
R519	1-216-695-11	s	METAL, CHIP 68K 0.50% 1/10W
R520	1-216-671-11	s	METAL, CHIP 6.8K 0.50% 1/10W
R521	1-216-677-11	s	METAL, CHIP 12K 0.5% 1/10W
R601	1-247-804-11	s	CARBON 75 5% 1/4W
R602	1-216-627-11	s	METAL, CHIP 100 0.50% 1/10W
R603	1-216-627-11	s	METAL, CHIP 100 0.50% 1/10W
R604	1-216-699-11	s	METAL, CHIP 100K 0.50% 1/10W
R605	1-208-789-11	s	METAL, CHIP 2K 0.50% 1/10W
R1003	1-216-017-91	s	METAL, CHIP 47 5% 1/10W
R1024	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R1033	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R1034	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R1040	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R1041	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R1051	1-216-121-91	s	METAL, CHIP 1M 5% 1/10W
R1052	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R1056	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R1057	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R1058	1-216-627-11	s	METAL, CHIP 100 0.50% 1/10W
R1059	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R1060	1-216-017-91	s	METAL, CHIP 47 5% 1/10W
R1061	1-216-017-91	s	METAL, CHIP 47 5% 1/10W
R1063	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R1064	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R1065	1-216-627-11	s	METAL, CHIP 100 0.50% 1/10W
R1066	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R1117	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R1119	1-216-699-11	s	METAL, CHIP 100K 0.50% 1/10W
R1120	1-216-699-11	s	METAL, CHIP 100K 0.50% 1/10W
R1121	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R1122	1-216-657-11	s	METAL, CHIP 1.8K 0.5% 1/10W
R1124	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R1125	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W

NOTE : Please see page 1-11 for the parts that are not listed in the parts list.

(AT-88 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R1126	1-216-660-11	s	METAL 2.4K 0.50% 1/10W
R1127	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R1128	1-216-660-11	s	METAL 2.4K 0.50% 1/10W
R1200	1-216-699-11	s	METAL, CHIP 100K 0.50% 1/10W
R2002	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2005	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2006	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2008	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2010	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2011	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2031	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2032	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2034	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2037	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2038	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2040	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2041	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2042	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2061	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R2062	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R2063	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R2065	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R2071	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R2072	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R2073	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R2075	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R2076	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R2077	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R2078	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R2079	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R2083	1-216-699-11	s	METAL, CHIP 100K 0.50% 1/10W
R2084	1-216-676-11	s	METAL, CHIP 11K 0.50% 1/10W
R2085	1-216-676-11	s	METAL, CHIP 11K 0.50% 1/10W
R2086	1-216-699-11	s	METAL, CHIP 100K 0.50% 1/10W
R2087	1-216-674-11	s	METAL, CHIP 9.1K 0.5% 1/10W
R2089	1-216-674-11	s	METAL, CHIP 9.1K 0.5% 1/10W
R2091	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2093	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2096	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2099	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R2104	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R2121	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2125	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2126	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2128	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2130	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2131	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2151	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2152	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2154	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2157	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2158	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2160	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2161	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2162	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2164	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R2181	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2182	1-216-627-11	s	METAL, CHIP 100 0.50% 1/10W
R2183	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W

(AT-88 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R2184	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2185	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2186	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R2187	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R2188	1-218-753-11	s	METAL 110K 0.50% 1/10W
R2189	1-218-753-11	s	METAL 110K 0.50% 1/10W
R2190	1-208-822-11	s	METAL, CHIP 47K 0.50% 1/10W
R2191	1-208-822-11	s	METAL, CHIP 47K 0.50% 1/10W
R2192	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2193	1-216-687-11	s	METAL, CHIP 33K 0.5% 1/10W
R2211	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R2212	1-216-627-11	s	METAL, CHIP 100 0.50% 1/10W
R2213	1-208-824-11	s	METAL, CHIP 56K 0.50% 1/10W
R2214	1-208-824-11	s	METAL, CHIP 56K 0.50% 1/10W
R2215	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R2216	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R2217	1-216-677-11	s	METAL, CHIP 12K 0.5% 1/10W
R2218	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2219	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2220	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2221	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2222	1-216-613-11	s	METAL, CHIP 27 0.5% 1/10W
R2223	1-216-699-11	s	METAL, CHIP 100K 0.50% 1/10W
R2224	1-216-121-91	s	METAL, CHIP 1M 5% 1/10W
R2225	1-216-121-91	s	METAL, CHIP 1M 5% 1/10W
R2227	1-208-784-11	s	METAL, CHIP 1.2K 0.50% 1/10W
R2228	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R2229	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R2230	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2231	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R2232	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R2233	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2234	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2235	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R2236	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R2237	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2238	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R2239	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R2241	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R2242	1-216-627-11	s	METAL, CHIP 100 0.50% 1/10W
R2243	1-216-682-11	s	METAL, CHIP 20K 0.5% 1/10W
R2244	1-216-682-11	s	METAL, CHIP 20K 0.5% 1/10W
R2245	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R2246	1-208-801-11	s	METAL, CHIP 6.2K 0.50% 1/10W
R2247	1-216-684-11	s	METAL, CHIP 24K 0.50% 1/10W
R2248	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2249	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2250	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2251	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2252	1-216-610-11	s	METAL 20 0.50% 1/10W
R2253	1-216-699-11	s	METAL, CHIP 100K 0.50% 1/10W
R2254	1-216-699-11	s	METAL, CHIP 100K 0.50% 1/10W
R2256	1-216-697-91	s	METAL, CHIP 82K 0.50% 1/10W
R2257	1-216-684-11	s	METAL, CHIP 24K 0.50% 1/10W
R2258	1-216-625-11	s	METAL, CHIP 82 0.5% 1/10W
R2265	1-208-784-11	s	METAL, CHIP 1.2K 0.50% 1/10W
R2266	1-216-687-11	s	METAL, CHIP 33K 0.5% 1/10W
R2267	1-208-822-11	s	METAL, CHIP 47K 0.50% 1/10W
R2268	1-216-687-11	s	METAL, CHIP 33K 0.5% 1/10W

NOTE : Please see page 1-11 for the parts that are not listed in the parts list.

(AT-88 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R2269	1-208-822-11	s	METAL, CHIP 47K 0.50% 1/10W
R2270	1-208-822-11	s	METAL, CHIP 47K 0.50% 1/10W
R2271	1-208-812-11	s	METAL, CHIP 18K 0.50% 1/10W
R2272	1-216-699-11	s	METAL, CHIP 100K 0.50% 1/10W
R2273	1-216-627-11	s	METAL, CHIP 100 0.50% 1/10W
R2274	1-208-823-11	s	METAL, CHIP 51K 0.50% 1/10W
R2275	1-208-823-11	s	METAL, CHIP 51K 0.50% 1/10W
R2276	1-216-627-11	s	METAL, CHIP 100 0.50% 1/10W
R2277	1-216-627-11	s	METAL, CHIP 100 0.50% 1/10W
R2278	1-216-627-11	s	METAL, CHIP 100 0.50% 1/10W
R2279	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R2280	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R2301	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R2302	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R2307	1-216-677-11	s	METAL, CHIP 12K 0.5% 1/10W
R2319	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R2320	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R2341	1-208-822-11	s	METAL, CHIP 47K 0.50% 1/10W
R2344	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2345	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2346	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2347	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2348	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2351	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2352	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2354	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2355	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2359	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R2381	1-216-671-11	s	METAL, CHIP 6.8K 0.50% 1/10W
R2382	1-216-671-11	s	METAL, CHIP 6.8K 0.50% 1/10W
R2389	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R2392	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2394	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2397	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R2398	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R2491	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2492	1-216-627-11	s	METAL, CHIP 100 0.50% 1/10W
R2493	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2494	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2495	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2496	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R2497	1-218-753-11	s	METAL 110K 0.50% 1/10W
R2498	1-218-753-11	s	METAL 110K 0.50% 1/10W
R2499	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R2500	1-208-822-11	s	METAL, CHIP 47K 0.50% 1/10W
R2501	1-208-822-11	s	METAL, CHIP 47K 0.50% 1/10W
R2502	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2523	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R2524	1-216-627-11	s	METAL, CHIP 100 0.50% 1/10W
R2525	1-208-824-11	s	METAL, CHIP 56K 0.50% 1/10W
R2526	1-208-824-11	s	METAL, CHIP 56K 0.50% 1/10W
R2527	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R2528	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R2529	1-216-677-11	s	METAL, CHIP 12K 0.5% 1/10W
R2530	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2531	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2532	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2533	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2534	1-216-613-11	s	METAL, CHIP 27 0.5% 1/10W

Ref. No. or Q'ty	Part No.	SP	Description
R2535	1-216-699-11	s	METAL, CHIP 100K 0.50% 1/10W
R2536	1-216-121-91	s	METAL, CHIP 1M 5% 1/10W
R2537	1-216-121-91	s	METAL, CHIP 1M 5% 1/10W
R2539	1-208-784-11	s	METAL, CHIP 1.2K 0.50% 1/10W
R2540	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2541	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R2542	1-216-627-11	s	METAL, CHIP 100 0.50% 1/10W
R2543	1-216-682-11	s	METAL, CHIP 20K 0.5% 1/10W
R2544	1-216-682-11	s	METAL, CHIP 20K 0.5% 1/10W
R2546	1-216-697-91	s	METAL, CHIP 82K 0.50% 1/10W
R2547	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R2548	1-208-801-11	s	METAL, CHIP 6.2K 0.50% 1/10W
R2549	1-216-684-11	s	METAL, CHIP 24K 0.50% 1/10W
R2550	1-216-684-11	s	METAL, CHIP 24K 0.50% 1/10W
R2551	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2552	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2553	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2554	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2555	1-216-625-11	s	METAL, CHIP 82 0.5% 1/10W
R2557	1-216-610-11	s	METAL 20 0.50% 1/10W
R2558	1-216-699-11	s	METAL, CHIP 100K 0.50% 1/10W
R2559	1-216-699-11	s	METAL, CHIP 100K 0.50% 1/10W
R2560	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R2561	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R2562	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2563	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R2564	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R2581	1-208-812-11	s	METAL, CHIP 18K 0.50% 1/10W
R2582	1-216-699-11	s	METAL, CHIP 100K 0.50% 1/10W
R2583	1-216-627-11	s	METAL, CHIP 100 0.50% 1/10W
R2584	1-208-823-11	s	METAL, CHIP 51K 0.50% 1/10W
R2585	1-208-823-11	s	METAL, CHIP 51K 0.50% 1/10W
R2586	1-216-627-11	s	METAL, CHIP 100 0.50% 1/10W
R2587	1-216-627-11	s	METAL, CHIP 100 0.50% 1/10W
R2588	1-216-627-11	s	METAL, CHIP 100 0.50% 1/10W
R2589	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R2590	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R2591	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R2592	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R2593	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2594	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R2595	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R2596	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R2597	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R2598	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2599	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R2600	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R2601	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2661	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R2662	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R2663	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2664	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R2665	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R2666	1-216-687-11	s	METAL, CHIP 33K 0.5% 1/10W
R2667	1-208-784-11	s	METAL, CHIP 1.2K 0.50% 1/10W
R2668	1-216-687-11	s	METAL, CHIP 33K 0.5% 1/10W
R2669	1-208-822-11	s	METAL, CHIP 47K 0.50% 1/10W
R2670	1-216-687-11	s	METAL, CHIP 33K 0.5% 1/10W
R2671	1-208-822-11	s	METAL, CHIP 47K 0.50% 1/10W

NOTE : Please see page 1-11 for the parts that are not listed in the parts list.

Ref. No. or Q'ty	Part No.	SP	Description
R2672	1-208-822-11	s	METAL, CHIP 47K 0.50% 1/10W
R2706	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2707	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2711	1-208-822-11	s	METAL, CHIP 47K 0.50% 1/10W
R2712	1-208-822-11	s	METAL, CHIP 47K 0.50% 1/10W
R2713	1-208-822-11	s	METAL, CHIP 47K 0.50% 1/10W
R2714	1-216-687-11	s	METAL, CHIP 33K 0.5% 1/10W
R2715	1-216-699-11	s	METAL, CHIP 100K 0.50% 1/10W
R2716	1-216-699-11	s	METAL, CHIP 100K 0.50% 1/10W
R2717	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R2723	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2724	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2751	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2752	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2753	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2754	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2795	1-216-089-91	s	METAL 47K 5% 1/10W
R2798	1-216-089-91	s	METAL 47K 5% 1/10W
R2825	1-216-089-91	s	METAL 47K 5% 1/10W
R2828	1-216-089-91	s	METAL 47K 5% 1/10W
R2850	1-216-619-11	s	METAL, CHIP 47 0.50% 1/10W
RB1000	1-239-416-11	s	RESISTOR BLOCK, CHIP 220X4
RB1001	1-239-308-11	s	RESISTOR BLOCK, CHIP 47KX8
RB1002	1-239-309-11	s	RESISTOR BLOCK, CHIP 100KX8
RB1003	1-239-308-11	s	RESISTOR BLOCK, CHIP 47KX8
RB1004	1-239-309-11	s	RESISTOR BLOCK, CHIP 100KX8
RB1005	1-239-309-11	s	RESISTOR BLOCK, CHIP 100KX8
RB1006	1-236-907-11	s	RESISTOR BLOCK, CHIP 100KX4
RB1007	1-236-904-11	s	RESISTOR BLOCK, CHIP 1KX4
RB1008	1-236-904-11	s	RESISTOR BLOCK, CHIP 1KX4
RB1009	1-239-308-11	s	RESISTOR BLOCK, CHIP 47KX8
RB1010	1-236-904-11	s	RESISTOR BLOCK, CHIP 1KX4
RB1011	1-236-904-11	s	RESISTOR BLOCK, CHIP 1KX4
RB1012	1-239-308-11	s	RESISTOR BLOCK, CHIP 47KX8
RB1013	1-236-904-11	s	RESISTOR BLOCK, CHIP 1KX4
RB1014	1-236-904-11	s	RESISTOR BLOCK, CHIP 1KX4
RB1015	1-239-308-11	s	RESISTOR BLOCK, CHIP 47KX8
RB1016	1-236-904-11	s	RESISTOR BLOCK, CHIP 1KX4
RB1017	1-236-904-11	s	RESISTOR BLOCK, CHIP 1KX4
RB1018	1-239-416-11	s	RESISTOR BLOCK, CHIP 220X4
RB1019	1-239-416-11	s	RESISTOR BLOCK, CHIP 220X4
RB1020	1-239-308-11	s	RESISTOR BLOCK, CHIP 47KX8
RB1021	1-239-389-11	s	RESISTOR BLOCK, CHIP 47KX4
RB1022	1-239-389-11	s	RESISTOR BLOCK, CHIP 47KX4
RB1023	1-239-416-11	s	RESISTOR BLOCK, CHIP 220X4
RB1024	1-239-416-11	s	RESISTOR BLOCK, CHIP 220X4
RB1025	1-239-308-11	s	RESISTOR BLOCK, CHIP 47KX8
RB1026	1-239-389-11	s	RESISTOR BLOCK, CHIP 47KX4
RB1027	1-236-904-11	s	RESISTOR BLOCK, CHIP 1KX4
RB1028	1-236-904-11	s	RESISTOR BLOCK, CHIP 1KX4
RB1029	1-236-907-11	s	RESISTOR BLOCK, CHIP 100KX4
RB1030	1-239-309-11	s	RESISTOR BLOCK, CHIP 100KX8
RB1031	1-236-907-11	s	RESISTOR BLOCK, CHIP 100KX4
RB1032	1-236-904-11	s	RESISTOR BLOCK, CHIP 1KX4
RB1033	1-236-904-11	s	RESISTOR BLOCK, CHIP 1KX4
RB1034	1-239-308-11	s	RESISTOR BLOCK, CHIP 47KX8
RB1035	1-236-904-11	s	RESISTOR BLOCK, CHIP 1KX4
RB1036	1-236-904-11	s	RESISTOR BLOCK, CHIP 1KX4

(AT-88 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
RV41	1-228-459-00	s	RES, ADJ, METAL 10K
RV61	1-228-459-00	s	RES, ADJ, METAL 10K
RV81	1-228-459-00	s	RES, ADJ, METAL 10K
RV101	1-228-462-00	s	RES, ADJ, METAL 100K
RV201	1-228-460-00	s	RES, ADJ, METAL 20K
RV301	1-228-460-00	s	RES, ADJ, METAL 20K
RV401	1-228-459-00	s	RES, ADJ, METAL 10K
RV501	1-228-459-00	s	RES, ADJ, METAL 10K
RV2211	1-228-476-00	s	RES, ADJ, METAL 50K
RV2212	1-228-474-00	s	RES, ADJ, METAL 10K
RV2241	1-228-474-00	s	RES, ADJ, METAL 10K
RV2301	1-228-460-00	s	RES, ADJ, METAL 20K
RV2310	1-228-463-00	s	RES, ADJ, METAL 200K
RV2341	1-228-474-00	s	RES, ADJ, METAL 10K
RV2342	1-228-474-00	s	RES, ADJ, METAL 10K
RV2451	1-228-476-00	s	RES, ADJ, METAL 50K
RV2452	1-228-474-00	s	RES, ADJ, METAL 10K
RV2491	1-228-474-00	s	RES, ADJ, METAL 10K
S201	1-570-857-11	s	SWITCH, SLIDE
S301	1-570-857-11	s	SWITCH, SLIDE
S1001	1-692-271-21	s	SWITCH, SLIDE
S1002	1-692-271-21	s	SWITCH, SLIDE
S1003	1-762-117-11	s	SWITCH, ROTARY
S1004	1-762-117-11	s	SWITCH, ROTARY
S1005	1-570-610-11	s	SWITCH, TOGGLE
S1006	1-572-972-21	s	SWITCH, CHIP
S1007	1-572-972-21	s	SWITCH, CHIP
S2061	1-570-857-11	s	SWITCH, SLIDE
S2062	1-570-611-11	s	SWITCH, TOGGLE
S2081	1-570-839-11	s	SWITCH, SLIDE
S2082	1-570-857-11	s	SWITCH, SLIDE
S2241	1-570-832-11	s	SWITCH, SLIDE
S2301	1-570-612-11	s	SWITCH, TOGGLE
S2341	1-570-857-11	s	SWITCH, SLIDE
S2491	1-570-832-11	s	SWITCH, SLIDE
S2791	1-570-839-11	s	SWITCH, SLIDE
S2792	1-570-857-11	s	SWITCH, SLIDE
S2821	1-570-839-11	s	SWITCH, SLIDE
S2822	1-570-857-11	s	SWITCH, SLIDE
T201	1-426-472-11	s	COIL, FM RECOVER
T301	1-426-473-11	s	COIL, FM RECOVER
T401	1-426-474-11	s	COIL, FM RECOVER
T501	1-426-475-11	s	COIL, FM RECOVER
T2830	1-426-994-11	s	TRANSFORMER, DC-DC CONVERTER
X1002	1-579-539-11	s	VIBRATOR, CRYSTAL

AU-209 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8272-884-A	o	MOUNTED CIRCUIT BOARD, AU-209
C501	1-126-933-11	s	ELECT 100uF 20% 16V
C503	1-135-152-21	s	TANTALUM, CHIP 1.5uF 10% 25V
C504	1-163-231-11	s	CERAMIC, CHIP 15PF 5% 50V
C505	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C506	1-135-152-21	s	TANTALUM, CHIP 1.5uF 10% 25V
C507	1-135-152-21	s	TANTALUM, CHIP 1.5uF 10% 25V
C508	1-126-933-11	s	ELECT 100uF 20% 16V
J16	1-580-561-11	o	PIN, CONNECTOR 12P
J17	1-564-721-11	s	PIN, CONNECTOR (SMALL TYPE) 5P
Q501	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
R501	1-218-760-11	s	METAL, CHIP 220K 0.50% 1/10W
R502	1-218-760-11	s	METAL, CHIP 220K 0.50% 1/10W
R503	1-216-699-11	s	METAL, CHIP 100K 0.50% 1/10W
R504	1-216-627-11	s	METAL, CHIP 100 0.50% 1/10W
R505	1-218-760-11	s	METAL, CHIP 220K 0.50% 1/10W
R506	1-216-659-11	s	METAL, CHIP 2.2K 0.5% 1/10W
R507	1-218-760-11	s	METAL, CHIP 220K 0.50% 1/10W
R508	1-216-659-11	s	METAL, CHIP 2.2K 0.5% 1/10W
R509	1-216-607-11	s	METAL, CHIP 15 0.50% 1/10W
R510	1-216-655-11	s	METAL, CHIP 1.5K 0.50% 1/10W
R511	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R512	1-216-655-11	s	METAL, CHIP 1.5K 0.50% 1/10W
R513	1-216-699-11	s	METAL, CHIP 100K 0.50% 1/10W
R514	1-216-699-11	s	METAL, CHIP 100K 0.50% 1/10W
R515	1-216-659-11	s	METAL, CHIP 2.2K 0.5% 1/10W
R516	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
RV501	1-241-874-11	s	RES, VAR, CARBON 10K
RY501	1-515-519-00	s	RELAY
S4	1-570-911-11	s	SWITCH, TOGGLE
U501	8-759-981-58	s	IC RC2043MD

CN-1013 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-589-838-11	o	MOUNTED CIRCUIT BOARD, CN-1013

NOTE : Please see page 1-11 for the parts that are not listed in the parts list.

CN-1014 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8314-028-A	o	MOUNTED CIRCUIT BOARD, CN-1014
4pcs	3-673-910-00	o	SCREW, CONNECTOR
CN1	1-563-891-21	s	CONNECTOR, D-SUB 25P
CN2	1-563-826-21	s	CONNECTOR, D-SUB 15P
CN3	1-506-475-11	o	PIN, CONNECTOR 10P
CN4	1-573-727-11	s	CONNECTOR, FPC 25P

CN-1015 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8314-026-A	o	MOUNTED CIRCUIT BOARD, CN-1015
32pcs	3-654-545-00	s	SPACER, BNC
2pcs	7-682-903-11	s	SCREW +PWH 3X6
CN1	1-561-336-00	s	CONNECTOR, COAXIAL
CN2	1-561-336-00	s	CONNECTOR, COAXIAL
CN3	1-561-336-00	s	CONNECTOR, COAXIAL
CN4	1-561-336-00	s	CONNECTOR, COAXIAL
CN5	1-561-336-00	s	CONNECTOR, COAXIAL
CN6	1-561-336-00	s	CONNECTOR, COAXIAL
CN7	1-561-336-00	s	CONNECTOR, COAXIAL
CN8	1-561-336-00	s	CONNECTOR, COAXIAL
CN9	1-561-336-00	s	CONNECTOR, COAXIAL
CN10	1-561-336-00	s	CONNECTOR, COAXIAL
CN11	1-561-336-00	s	CONNECTOR, COAXIAL
CN12	1-561-336-00	s	CONNECTOR, COAXIAL
CN13	1-561-336-00	s	CONNECTOR, COAXIAL
CN14	1-561-336-00	s	CONNECTOR, COAXIAL
CN15	1-561-336-00	s	CONNECTOR, COAXIAL
CN16	1-561-336-00	s	CONNECTOR, COAXIAL
CN17	1-506-637-11	o	CONNECTOR, PS 16P
CN18	1-506-471-11	o	PIN, CONNECTOR 6P

CN-1036 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8314-027-A	o	MOUNTED CIRCUIT BOARD, CN-1036
16pcs	3-654-545-00	s	SPACER, BNC
2pcs	7-682-903-11	s	SCREW +PWH 3X6
CN1	1-561-336-00	s	CONNECTOR, COAXIAL
CN2	1-561-336-00	s	CONNECTOR, COAXIAL
CN3	1-561-336-00	s	CONNECTOR, COAXIAL
CN4	1-561-336-00	s	CONNECTOR, COAXIAL
CN5	1-561-336-00	s	CONNECTOR, COAXIAL
CN6	1-561-336-00	s	CONNECTOR, COAXIAL
CN7	1-561-336-00	s	CONNECTOR, COAXIAL
CN8	1-561-336-00	s	CONNECTOR, COAXIAL
CN9	1-561-336-00	s	CONNECTOR, COAXIAL
CN10	1-561-336-00	s	CONNECTOR, COAXIAL
CN11	1-561-336-00	s	CONNECTOR, COAXIAL
CN12	1-561-336-00	s	CONNECTOR, COAXIAL
CN13	1-561-336-00	s	CONNECTOR, COAXIAL
CN14	1-561-336-00	s	CONNECTOR, COAXIAL
CN15	1-561-336-00	s	CONNECTOR, COAXIAL
CN16	1-561-336-00	s	CONNECTOR, COAXIAL
CN18	1-506-644-11	o	CONNECTOR, PS 30P
CN19	1-506-633-11	o	CONNECTOR, PS 8P

CN-1049 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8314-029-A	o	MOUNTED CIRCUIT BOARD, CN-1049
CN1	1-766-696-11	o	CONNECTOR, 8P
CN2	1-766-696-11	o	CONNECTOR, 8P
CN3	1-573-727-11	s	CONNECTOR, FPC 25P

NOTE : Please see page 1-11 for the parts that are not listed in the parts list.

DM-94 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8314-022-A	o	MOUNTED CIRCUIT BOARD, DM-94
6pcs	1-533-223-11	s	HOLDER, FUSE
4pcs	1-562-372-00	s	SOCKET, SHORT 2P
2pcs	3-681-042-01	o	LEVER, PC BOARD(1)
2pcs	3-681-045-01	o	LEVER, PC BOARD(2)
4pcs	7-626-320-11	s	PIN, SPRING 3X8
9pcs	7-682-903-11	s	SCREW +PWH 3X6
1pc	3-681-020-01	o	PC SHIELD PLATE
1pc	3-681-036-01	o	PC BOARD PANEL DM
1pc	1-239-963-23	s	FILTER, MPX
1pc	1-765-696-11	s	CABLE ASSEMBLY, COAXIAL
2pcs	7-682-903-11	s	SCREW +PWH 3X6
C2	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C3	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C7	1-163-275-11	s	CERAMIC 0.001uF 5% 50V
C12	1-163-275-11	s	CERAMIC 0.001uF 5% 50V
C17	1-163-275-11	s	CERAMIC 0.001uF 5% 50V
C22	1-163-275-11	s	CERAMIC 0.001uF 5% 50V
C37	1-135-161-21	s	TANTALUM, CHIP 22uF 10% 10V
C40	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C41	1-135-161-21	s	TANTALUM, CHIP 22uF 10% 10V
C42	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C45	1-135-179-21	s	TANTAL 2.2uF 10% 16V
C46	1-135-179-21	s	TANTAL 2.2uF 10% 16V
C47	1-163-251-11	s	CERAMIC, CHIP 100PF 5% 50V
C49	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C50	1-128-394-11	s	ELECT 220uF 20% 10V
C52	1-128-394-11	s	ELECT 220uF 20% 10V
C56	1-163-275-11	s	CERAMIC 0.001uF 5% 50V
C58	1-163-217-11	s	CERAMIC 1PF 0.25PF 50V
C63	1-163-275-11	s	CERAMIC 0.001uF 5% 50V
C65	1-163-217-11	s	CERAMIC 1PF 0.25PF 50V
C70	1-163-275-11	s	CERAMIC 0.001uF 5% 50V
C73	1-163-217-11	s	CERAMIC 1PF 0.25PF 50V
C77	1-163-275-11	s	CERAMIC 0.001uF 5% 50V
C80	1-163-217-11	s	CERAMIC 1PF 0.25PF 50V
C87	1-163-275-11	s	CERAMIC 0.001uF 5% 50V
C89	1-163-217-11	s	CERAMIC 1PF 0.25PF 50V
C123	1-163-275-11	s	CERAMIC 0.001uF 5% 50V
C127	1-163-275-11	s	CERAMIC 0.001uF 5% 50V
C128	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C129	1-135-179-21	s	TANTAL 2.2uF 10% 16V
C130	1-135-179-21	s	TANTAL 2.2uF 10% 16V
C133	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C135	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C136	1-163-243-11	s	CERAMIC, CHIP 47PF 5% 50V
C137	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C138	1-135-161-21	s	TANTALUM, CHIP 22uF 10% 10V
C140	1-135-149-21	s	TANTALUM, CHIP 2.2uF 10% 10V
C142	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C144	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C145	1-135-161-21	s	TANTALUM, CHIP 22uF 10% 10V
C146	1-135-161-21	s	TANTALUM, CHIP 22uF 10% 10V
C147	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C149	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C150	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C152	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C153	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C156	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C157	1-135-161-21	s	TANTALUM, CHIP 22uF 10% 10V
C158	1-135-161-21	s	TANTALUM, CHIP 22uF 10% 10V
C159	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C160	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C161	1-135-148-21	s	TANTAL 1.5uF 10% 16V
C162	1-163-275-11	s	CERAMIC 0.001uF 5% 50V
C163	1-135-148-21	s	TANTAL 1.5uF 10% 16V
C169	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C171	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C172	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C176	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C177	1-135-161-21	s	TANTALUM, CHIP 22uF 10% 10V
C178	1-135-161-21	s	TANTALUM, CHIP 22uF 10% 10V
C179	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C180	1-163-222-11	s	CERAMIC 5PF 0.25PF 50V
C181	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C182	1-126-603-11	s	ELECT 4.7uF 20% 35V
C183	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C184	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C186	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C188	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C189	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C190	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C192	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C194	1-163-235-11	s	CERAMIC, CHIP 22PF 5% 50V
C195	1-163-237-11	s	CERAMIC 27PF 5% 50V
C196	1-163-235-11	s	CERAMIC, CHIP 22PF 5% 50V
C197	1-163-235-11	s	CERAMIC, CHIP 22PF 5% 50V
C200	1-135-161-21	s	TANTALUM, CHIP 22uF 10% 10V
C201	1-135-161-21	s	TANTALUM, CHIP 22uF 10% 10V
C202	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C203	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C204	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C205	1-163-275-11	s	CERAMIC 0.001uF 5% 50V
C207	1-163-275-11	s	CERAMIC 0.001uF 5% 50V
C209	1-163-275-11	s	CERAMIC 0.001uF 5% 50V
C210	1-135-076-21	s	TANTALUM, CHIP 1uF 10% 35V
C211	1-135-179-21	s	TANTAL 2.2uF 10% 16V
C212	1-135-179-21	s	TANTAL 2.2uF 10% 16V
C215	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C217	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C218	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C220	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C221	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C222	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C223	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C224	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C225	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C226	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C227	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C228	1-163-217-11	s	CERAMIC 1PF 0.25PF 50V
C229	1-163-220-11	s	CERAMIC 3PF 0.25PF 50V
C230	1-135-161-21	s	TANTALUM, CHIP 22uF 10% 10V
C231	1-135-161-21	s	TANTALUM, CHIP 22uF 10% 10V
C232	1-163-275-11	s	CERAMIC 0.001uF 5% 50V
C233	1-126-603-11	s	ELECT 4.7uF 20% 35V
C234	1-163-275-11	s	CERAMIC 0.001uF 5% 50V
C235	1-135-161-21	s	TANTALUM, CHIP 22uF 10% 10V

NOTE : Please see page 1-11 for the parts that are not listed in the parts list.

(DM-94 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C236	1-135-161-21	s	TANTALUM, CHIP 22uF 10% 10V
C237	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C238	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C241	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C243	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C244	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C246	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C247	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C249	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C250	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C251	1-135-091-00	s	TANTALUM CHIP, 1uF 20% 16V
C252	1-135-091-00	s	TANTALUM CHIP, 1uF 20% 16V
C253	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C254	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C255	1-163-217-11	s	CERAMIC 1PF 0.25PF 50V
C256	1-163-220-11	s	CERAMIC 3PF 0.25PF 50V
C257	1-135-161-21	s	TANTALUM, CHIP 22uF 10% 10V
C258	1-135-161-21	s	TANTALUM, CHIP 22uF 10% 10V
C259	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C260	1-126-603-11	s	ELECT 4.7uF 20% 35V
C261	1-115-339-11	s	CERAMIC, CHIP 0.1uF 10% 50V
C262	1-104-910-11	s	TANTALUM, CHIP 15uF 10% 10V
C263	1-104-910-11	s	TANTALUM, CHIP 15uF 10% 10V
C264	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C265	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C266	1-163-241-11	s	CERAMIC, CHIP 39PF 5% 50V
C267	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C270	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C273	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C274	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C277	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C278	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C280	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C281	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C286	1-163-275-11	s	CERAMIC 0.001uF 5% 50V
C287	1-163-275-11	s	CERAMIC 0.001uF 5% 50V
C288	1-163-275-11	s	CERAMIC 0.001uF 5% 50V
C289	1-163-275-11	s	CERAMIC 0.001uF 5% 50V
C290	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C291	1-163-235-11	s	CERAMIC, CHIP 22PF 5% 50V
C300	1-135-076-21	s	TANTALUM, CHIP 1uF 10% 35V
C303	1-163-222-11	s	CERAMIC 5PF 0.25PF 50V
C311	1-163-241-11	s	CERAMIC, CHIP 39PF 5% 50V
C331	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C332	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C333	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C334	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C335	1-135-166-21	s	TANTALUM, CHIP 47uF 10% 10V
C336	1-163-038-91	s	CERAMIC, 0.1uF 25V
C339	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C342	1-163-275-11	s	CERAMIC 0.001uF 5% 50V
C343	1-135-164-21	s	TANTALUM, CHIP 22uF 20% 10V
C345	1-164-161-11	s	CERAMIC, CHIP 0.0022uF 10% 100V
C346	1-164-161-11	s	CERAMIC, CHIP 0.0022uF 10% 100V
C347	1-164-161-11	s	CERAMIC, CHIP 0.0022uF 10% 100V
C348	1-164-161-11	s	CERAMIC, CHIP 0.0022uF 10% 100V
C349	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C350	1-164-161-11	s	CERAMIC, CHIP 0.0022uF 10% 100V
C351	1-164-161-11	s	CERAMIC, CHIP 0.0022uF 10% 100V

NOTE : Please see page 1-11 for the parts that are not listed in the parts list.

(DM-94 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C352	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C353	1-164-161-11	s	CERAMIC, CHIP 0.0022uF 10% 100V
C354	1-163-231-11	s	CERAMIC, CHIP 15PF 5% 50V
C355	1-163-275-11	s	CERAMIC 0.001uF 5% 50V
C356	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C357	1-163-275-11	s	CERAMIC 0.001uF 5% 50V
C358	1-163-275-11	s	CERAMIC 0.001uF 5% 50V
C360	1-163-275-11	s	CERAMIC 0.001uF 5% 50V
C361	1-163-231-11	s	CERAMIC, CHIP 15PF 5% 50V
C362	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C363	1-163-275-11	s	CERAMIC 0.001uF 5% 50V
C364	1-135-164-21	s	TANTALUM, CHIP 22uF 20% 10V
C365	1-135-166-21	s	TANTALUM, CHIP 47uF 10% 10V
C367	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C368	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C369	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C370	1-135-091-00	s	TANTALUM CHIP, 1uF 20% 16V
C371	1-163-234-11	s	CERAMIC 20PF 5% 50V
C372	1-135-145-11	s	TANTALUM, CHIP 0.47uF 10% 35V
C373	1-135-125-21	s	TANTAL 33uF 20% 10V
C374	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C375	1-135-125-21	s	TANTAL 33uF 20% 10V
C376	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C377	1-104-601-11	s	ELECT 10uF 20% 10V
C378	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C380	1-163-231-11	s	CERAMIC, CHIP 15PF 5% 50V
C382	1-163-251-11	s	CERAMIC, CHIP 100PF 5% 50V
C383	1-128-397-21	s	ELECT 100uF 20% 16V
C384	1-128-397-21	s	ELECT 100uF 20% 16V
C385	1-128-394-11	s	ELECT 220uF 20% 10V
C386	1-128-394-11	s	ELECT 220uF 20% 10V
C387	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C388	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C389	1-135-149-21	s	TANTALUM, CHIP 2.2uF 10% 10V
C390	1-135-149-21	s	TANTALUM, CHIP 2.2uF 10% 10V
C391	1-163-275-11	s	CERAMIC 0.001uF 5% 50V
C392	1-128-394-11	s	ELECT 220uF 20% 10V
C393	1-128-394-11	s	ELECT 220uF 20% 10V
C394	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C395	1-163-275-11	s	CERAMIC 0.001uF 5% 50V
C396	1-126-395-11	s	ELECT 22uF 20% 16V
C398	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C403	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C405	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C411	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C412	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C413	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C416	1-128-397-21	s	ELECT 100uF 20% 16V
C417	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C418	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C419	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C420	1-163-235-11	s	CERAMIC, CHIP 22PF 5% 50V
C421	1-163-235-11	s	CERAMIC, CHIP 22PF 5% 50V
C430	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C431	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C432	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C433	1-104-601-11	s	ELECT 10uF 20% 10V
C436	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C442	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V

Ref. No. or Q'ty	Part No.	SP	Description
C511	1-163-217-11	s	CERAMIC 1PF 0.25PF 50V
C513	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C514	1-104-601-11	s	ELECT 10uF 20% 10V
C517	1-163-098-00	s	CERAMIC, CHIP 16PF 5% 50V
C519	1-163-224-11	s	CERAMIC, CHIP 7PF 0.25PF 50V
C520	1-135-210-11	s	TANTALUM 4.7uF 10% 10V
C521	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C522	1-135-125-21	s	TANTAL 33uF 20% 10V
C523	1-135-125-21	s	TANTAL 33uF 20% 10V
C525	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C526	1-135-148-21	s	TANTAL 1.5uF 10% 16V
C527	1-135-148-21	s	TANTAL 1.5uF 10% 16V
C540	1-163-220-11	s	CERAMIC 3PF 0.25PF 50V
CN1	1-774-668-11	o	CONNECTOR, BOARD TO BOARD 96P
CN2	1-774-668-11	o	CONNECTOR, BOARD TO BOARD 96P
CN3	1-766-703-11	s	CONNECTOR, COAXIAL
CN4	1-766-703-11	s	CONNECTOR, COAXIAL
CN5	1-766-703-11	s	CONNECTOR, COAXIAL
CN6	1-766-703-11	s	CONNECTOR, COAXIAL
CN7	1-766-703-11	s	CONNECTOR, COAXIAL
CN8	1-750-880-11	s	RECEPTACLE, COAXIAL CONNECTOR, BNC
CN9	1-750-880-11	s	RECEPTACLE, COAXIAL CONNECTOR, BNC
CV1	1-141-356-11	s	CAP, TRIMMER
CV2	1-141-423-61	s	CAP, TRIMMER
CV3	1-141-423-61	s	CAP, TRIMMER
D1	8-719-820-23	s	DIODE 1SS269
D2	8-719-820-23	s	DIODE 1SS269
D3	8-719-820-23	s	DIODE 1SS269
D4	8-719-820-23	s	DIODE 1SS269
D5	8-719-820-23	s	DIODE 1SS269
D6	8-719-820-23	s	DIODE 1SS269
D7	8-719-820-23	s	DIODE 1SS269
D8	8-719-820-23	s	DIODE 1SS269
D9	8-719-820-23	s	DIODE 1SS269
D10	8-719-820-23	s	DIODE 1SS269
D11	8-719-820-23	s	DIODE 1SS269
D12	8-719-820-23	s	DIODE 1SS269
D13	8-719-800-76	s	DIODE 1SS226
D14	8-719-948-47	s	DIODE HSM88AS
D15	8-719-948-47	s	DIODE HSM88AS
D16	8-719-800-76	s	DIODE 1SS226
D17	8-719-800-76	s	DIODE 1SS226
D18	8-719-820-23	s	DIODE 1SS269
D19	8-719-820-23	s	DIODE 1SS269
D20	8-719-820-23	s	DIODE 1SS269
D21	8-719-820-23	s	DIODE 1SS269
D22	8-719-820-23	s	DIODE 1SS269
D23	8-719-820-23	s	DIODE 1SS269
D24	8-719-820-23	s	DIODE 1SS269
D25	8-719-820-23	s	DIODE 1SS269
D26	8-719-820-23	s	DIODE 1SS269
D27	8-719-820-23	s	DIODE 1SS269
D28	8-719-820-23	s	DIODE 1SS269
D29	8-719-820-23	s	DIODE 1SS269
D30	8-719-820-23	s	DIODE 1SS269
D40	8-719-030-23	s	DIODE 1SV172-TE85L
D41	8-719-030-23	s	DIODE 1SV172-TE85L
D42	8-719-800-76	s	DIODE 1SS226

NOTE : Please see page 1-11 for the parts that are not listed in the parts list.

Ref. No. or Q'ty	Part No.	SP	Description
D43	8-719-800-76	s	DIODE 1SS226
D44	8-719-800-76	s	DIODE 1SS226
D50	8-719-030-23	s	DIODE 1SV172-TE85L
D51	8-719-030-23	s	DIODE 1SV172-TE85L
D52	8-719-800-76	s	DIODE 1SS226
D53	8-719-800-76	s	DIODE 1SS226
D54	8-719-030-23	s	DIODE 1SV172-TE85L
D60	8-719-948-47	s	DIODE HSM88AS
D61	8-719-800-76	s	DIODE 1SS226
D64	8-719-002-81	s	DIODE 1T363
D65	8-719-002-81	s	DIODE 1T363
D66	8-719-974-41	s	DIODE HLMP-6500-010
D67	8-719-974-41	s	DIODE HLMP-6500-010
D68	8-719-974-41	s	DIODE HLMP-6500-010
D69	8-719-974-41	s	DIODE HLMP-6500-010
D70	8-719-157-23	s	DIODE RD4.7M-B
D71	8-719-157-23	s	DIODE RD4.7M-B
D72	8-759-274-67	s	IC LM4040BIM3X-5.0
D73	8-719-021-31	s	DIODE UZM5.1B
DL1	1-415-832-11	s	DELAY LINE
E1	3-673-772-01	s	TERMINAL, TP
E2	3-673-772-01	s	TERMINAL, TP
E4	3-673-772-01	s	TERMINAL, TP
E5	3-673-772-01	s	TERMINAL, TP
E6	3-673-772-01	s	TERMINAL, TP
E7	3-673-772-01	s	TERMINAL, TP
E8	3-673-772-01	s	TERMINAL, TP
E9	3-673-772-01	s	TERMINAL, TP
E10	3-673-772-01	s	TERMINAL, TP
E11	3-673-772-01	s	TERMINAL, TP
E12	3-673-772-01	s	TERMINAL, TP
E13	3-673-772-01	s	TERMINAL, TP
E14	3-673-772-01	s	TERMINAL, TP
E15	3-673-772-01	s	TERMINAL, TP
E16	3-673-772-01	s	TERMINAL, TP
F1	⚠ 1-576-225-41	s	FUSE (H.B.C.)
F2	⚠ 1-576-225-41	s	FUSE (H.B.C.)
F3	⚠ 1-576-225-41	s	FUSE (H.B.C.)
FB1	1-535-178-00	s	RES, FERRITE
FB2	1-535-178-00	s	RES, FERRITE
FB3	1-535-178-00	s	RES, FERRITE
FB4	1-535-178-00	s	RES, FERRITE
FL1	1-239-948-11	s	FILTER, LOW-PASS (VIDEO)
FL2	1-239-944-11	s	FILTER, LOW-PASS
FL3	1-409-821-11	s	PHASE SHIFTER 90
FL4	1-239-950-11	s	FILTER, LOW-PASS (VIDEO)
FL5	1-239-951-11	s	FILTER, LOW-PASS (VIDEO)
FL6	1-239-946-11	s	FILTER, LOW-PASS
FL7	1-239-951-11	s	FILTER, LOW-PASS (VIDEO)
FL8	1-239-948-11	s	FILTER, LOW-PASS (VIDEO)
FL9	1-236-272-11	s	FILTER, BANDPASS 70MHz
FL10	1-239-948-11	s	FILTER, LOW-PASS (VIDEO)
FL11	1-239-972-11	s	FILTER, LOW-PASS
FL12	1-239-964-11	s	FILTER (CABLE EQ)
FL13	1-239-965-11	s	FILTER (CABLE EQ)
FL14	1-239-966-11	s	FILTER (CABLE EQ)
FL15	1-239-967-11	s	FILTER (CABLE EQ)

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Ref. No. or Q'ty	Part No.	SP	Description
IC1	8-759-906-53	s	IC TL062CPS
IC2	8-759-300-71	s	IC MC14053BF
IC3	8-759-100-93	s	IC UPC393G2
IC4	8-759-008-74	s	IC MC14001BF
IC5	8-759-009-41	s	IC MC14520BF
IC6	8-759-009-82	s	IC MC14011BF-T2
IC7	8-759-011-65	s	IC MC74HC4053F
IC8	8-759-008-74	s	IC MC14001BF
IC9	8-759-009-82	s	IC MC14011BF-T2
IC10	8-759-011-65	s	IC MC74HC4053F
IC11	8-759-011-65	s	IC MC74HC4053F
IC12	8-759-906-53	s	IC TL062CPS
IC13	8-759-176-91	s	IC M51348AFP
IC14	8-759-987-27	s	IC LM1881M
IC15	8-759-239-58	s	IC TC74HC221AF
IC16	8-759-239-58	s	IC TC74HC221AF
IC17	8-759-100-93	s	IC UPC393G2
IC18	8-759-700-95	s	IC NJM1496M
IC19	8-759-906-53	s	IC TL062CPS
IC20	8-759-141-60	s	IC UPA101G
IC21	8-759-054-61	s	IC CLC505AJE
IC22	8-759-085-67	s	IC LM339NS
IC23	8-759-105-49	s	IC UPC319G2
IC24	8-759-906-53	s	IC TL062CPS
IC25	8-759-141-60	s	IC UPA101G
IC26	8-759-054-61	s	IC CLC505AJE
IC27	8-759-382-70	s	IC TLC274CNS-E05
IC29	8-759-141-60	s	IC UPA101G
IC30	8-759-054-61	s	IC CLC505AJE
IC31	8-759-382-70	s	IC TLC274CNS-E05
IC32	8-759-100-93	s	IC UPC393G2
IC33	8-759-009-05	s	IC MC14051BF
IC34	8-759-242-64	s	IC TC4W53F
IC36	8-759-242-64	s	IC TC4W53F
IC37	8-759-242-64	s	IC TC4W53F
IC38	8-752-058-10	s	IC CXA1122AM-3
IC39	8-752-052-82	s	IC CXA1432M
IC40	8-752-052-82	s	IC CXA1432M
IC41	8-759-054-61	s	IC CLC505AJE
IC42	8-759-906-53	s	IC TL062CPS
IC43	8-759-906-53	s	IC TL062CPS
IC44	8-759-281-38	s	IC M52313SP
IC45	8-759-147-84	s	IC CXD8072Q
IC46	8-759-242-78	s	IC TC7W02F
IC47	8-759-970-59	s	IC TLC272CPS
IC48	8-759-009-05	s	IC MC14051BF
IC49	8-759-906-53	s	IC TL062CPS
IC50	8-759-242-78	s	IC TC7W02F
IC51	8-759-926-25	s	IC SN74HC165ANS
IC52	8-759-926-25	s	IC SN74HC165ANS
IC53	8-759-054-61	s	IC CLC505AJE
IC54	8-759-054-61	s	IC CLC505AJE
IC55	8-759-054-61	s	IC CLC505AJE
IC56	8-759-054-61	s	IC CLC505AJE
IC57	8-759-054-61	s	IC CLC505AJE
IC58	8-752-052-82	s	IC CXA1432M
L1	1-412-029-11	s	INDUCTOR CHIP 10uH
L2	1-412-029-11	s	INDUCTOR CHIP 10uH

NOTE : Please see page 1-11 for the parts that are not listed in the parts list.

(DM-94 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
L3	1-408-777-00	s	INDUCTOR CHIP 10uH
L4	1-408-777-00	s	INDUCTOR CHIP 10uH
L5	1-408-777-00	s	INDUCTOR CHIP 10uH
L6	1-408-777-00	s	INDUCTOR CHIP 10uH
L7	1-408-777-00	s	INDUCTOR CHIP 10uH
L8	1-408-777-00	s	INDUCTOR CHIP 10uH
L9	1-408-777-00	s	INDUCTOR CHIP 10uH
L10	1-412-029-11	s	INDUCTOR CHIP 10uH
L11	1-412-029-11	s	INDUCTOR CHIP 10uH
L12	1-412-029-11	s	INDUCTOR CHIP 10uH
L13	1-412-029-11	s	INDUCTOR CHIP 10uH
L14	1-408-777-00	s	INDUCTOR CHIP 10uH
L15	1-408-777-00	s	INDUCTOR CHIP 10uH
L16	1-408-777-00	s	INDUCTOR CHIP 10uH
L17	1-408-777-00	s	INDUCTOR CHIP 10uH
L18	1-408-777-00	s	INDUCTOR CHIP 10uH
L19	1-408-777-00	s	INDUCTOR CHIP 10uH
L20	1-408-777-00	s	INDUCTOR CHIP 10uH
L30	1-412-029-11	s	INDUCTOR CHIP 10uH
L31	1-408-777-00	s	INDUCTOR CHIP 10uH
L32	1-408-777-00	s	INDUCTOR CHIP 10uH
L33	1-408-777-00	s	INDUCTOR CHIP 10uH
L34	1-412-029-11	s	INDUCTOR CHIP 10uH
L37	1-412-029-11	s	INDUCTOR CHIP 10uH
L38	1-412-029-11	s	INDUCTOR CHIP 10uH
L39	1-412-029-11	s	INDUCTOR CHIP 10uH
L40	1-412-029-11	s	INDUCTOR CHIP 10uH
L41	1-412-029-11	s	INDUCTOR CHIP 10uH
L42	1-412-029-11	s	INDUCTOR CHIP 10uH
L43	1-412-029-11	s	INDUCTOR CHIP 10uH
L44	1-412-029-11	s	INDUCTOR CHIP 10uH
L50	1-412-029-11	s	INDUCTOR CHIP 10uH
L51	1-412-029-11	s	INDUCTOR CHIP 10uH
L52	1-408-777-00	s	INDUCTOR CHIP 10UH
L53	1-408-777-00	s	INDUCTOR CHIP 10uH
L54	1-408-777-00	s	INDUCTOR CHIP 10uH
L55	1-412-029-11	s	INDUCTOR CHIP 10uH
L56	1-412-029-11	s	INDUCTOR CHIP 10uH
L57	1-412-029-11	s	INDUCTOR CHIP 10uH
L58	1-412-029-11	s	INDUCTOR CHIP 10uH
L59	1-408-777-00	s	INDUCTOR CHIP 10uH
L60	1-408-765-21	s	INDUCTOR CHIP 1uH
L61	1-408-777-00	s	INDUCTOR CHIP 10uH
L62	1-412-029-11	s	INDUCTOR CHIP 10uH
L70	1-412-029-11	s	INDUCTOR CHIP 10uH
L71	1-412-029-11	s	INDUCTOR CHIP 10uH
L74	1-412-029-11	s	INDUCTOR CHIP 10uH
L75	1-412-029-11	s	INDUCTOR CHIP 10uH
L76	1-412-029-11	s	INDUCTOR CHIP 10uH
L77	1-412-029-11	s	INDUCTOR CHIP 10uH
L78	1-408-765-21	s	INDUCTOR CHIP 1uH
L79	1-410-136-11	s	INDUCTOR 3.3uH
L80	1-422-595-12	s	COIL, AIR CORE
L81	1-422-594-11	s	COIL, AIR CORE
L82	1-412-029-11	s	INDUCTOR CHIP 10uH
L83	1-412-029-11	s	INDUCTOR CHIP 10uH
L84	1-412-026-11	s	INDUCTOR CHIP 1uH
L85	1-412-026-11	s	INDUCTOR CHIP 1uH
L88	1-412-026-11	s	INDUCTOR CHIP 1uH

(DM-94 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
L90	1-412-026-11	s	INDUCTOR CHIP 1uH
L91	1-412-026-11	s	INDUCTOR CHIP 1uH
L93	1-412-026-11	s	INDUCTOR CHIP 1uH
L94	1-414-529-21	s	INDUCTOR(POWER) 100uH
L95	1-414-529-21	s	INDUCTOR(POWER) 100uH
L96	1-414-529-21	s	INDUCTOR(POWER) 100uH
L98	1-412-029-11	s	INDUCTOR CHIP 10uH
L99	1-412-029-11	s	INDUCTOR CHIP 10uH
L100	1-412-029-11	s	INDUCTOR CHIP 10uH
L101	1-412-029-11	s	INDUCTOR CHIP 10uH
L102	1-409-840-11	s	COIL, BALUN
L103	1-409-840-11	s	COIL, BALUN
L104	1-412-029-11	s	INDUCTOR CHIP 10uH
L105	1-412-029-11	s	INDUCTOR CHIP 10uH
LV1	1-410-301-11	s	MICRO INDUCTOR 1uH
LV2	1-409-820-21	s	COIL, VAR
LV3	1-409-820-21	s	COIL, VAR
Q1	8-729-175-73	s	TRANSISTOR 2SC2757
Q2	8-729-216-22	s	TRANSISTOR 2SA1162
Q3	8-729-175-73	s	TRANSISTOR 2SC2757
Q4	8-729-175-73	s	TRANSISTOR 2SC2757
Q5	8-729-216-22	s	TRANSISTOR 2SA1162
Q6	8-729-175-73	s	TRANSISTOR 2SC2757
Q7	8-729-175-73	s	TRANSISTOR 2SC2757
Q8	8-729-216-22	s	TRANSISTOR 2SA1162
Q9	8-729-175-73	s	TRANSISTOR 2SC2757
Q10	8-729-175-73	s	TRANSISTOR 2SC2757
Q11	8-729-216-22	s	TRANSISTOR 2SA1162
Q12	8-729-175-73	s	TRANSISTOR 2SC2757
Q13	8-729-175-73	s	TRANSISTOR 2SC2757
Q14	8-729-216-22	s	TRANSISTOR 2SA1162
Q15	8-729-175-73	s	TRANSISTOR 2SC2757
Q16	8-729-175-73	s	TRANSISTOR 2SC2757
Q17	8-729-122-63	s	TRANSISTOR 2SA1226
Q18	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q19	8-729-175-73	s	TRANSISTOR 2SC2757
Q20	8-729-216-22	s	TRANSISTOR 2SA1162
Q21	8-729-175-73	s	TRANSISTOR 2SC2757
Q22	8-729-175-73	s	TRANSISTOR 2SC2757
Q23	8-729-175-73	s	TRANSISTOR 2SC2757
Q24	8-729-216-22	s	TRANSISTOR 2SA1162
Q25	8-729-175-73	s	TRANSISTOR 2SC2757
Q26	8-729-175-73	s	TRANSISTOR 2SC2757
Q27	8-729-175-73	s	TRANSISTOR 2SC2757
Q28	8-729-216-22	s	TRANSISTOR 2SA1162
Q29	8-729-175-73	s	TRANSISTOR 2SC2757
Q30	8-729-175-73	s	TRANSISTOR 2SC2757
Q31	8-729-175-73	s	TRANSISTOR 2SC2757
Q32	8-729-216-22	s	TRANSISTOR 2SA1162
Q33	8-729-175-73	s	TRANSISTOR 2SC2757
Q34	8-729-175-73	s	TRANSISTOR 2SC2757
Q35	8-729-175-73	s	TRANSISTOR 2SC2757
Q36	8-729-216-22	s	TRANSISTOR 2SA1162
Q37	8-729-175-73	s	TRANSISTOR 2SC2757
Q38	8-729-175-73	s	TRANSISTOR 2SC2757
Q39	8-729-175-73	s	TRANSISTOR 2SC2757
Q50	8-729-175-73	s	TRANSISTOR 2SC2757
Q51	8-729-175-73	s	TRANSISTOR 2SC2757

(DM-94 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
Q52	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q53	8-729-122-63	s	TRANSISTOR 2SA1226
Q54	8-729-122-63	s	TRANSISTOR 2SA1226
Q55	8-729-122-63	s	TRANSISTOR 2SA1226
Q56	8-729-122-63	s	TRANSISTOR 2SA1226
Q57	8-729-122-63	s	TRANSISTOR 2SA1226
Q58	8-729-122-63	s	TRANSISTOR 2SA1226
Q60	8-729-109-44	s	TRANSISTOR 2SK94
Q61	8-729-109-44	s	TRANSISTOR 2SK94
Q62	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q63	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q64	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q65	8-729-200-87	s	TRANSISTOR 2SC2714Y
Q66	8-729-122-63	s	TRANSISTOR 2SA1226
Q67	8-729-175-73	s	TRANSISTOR 2SC2757
Q68	8-729-116-64	s	TRANSISTOR 2SK508-K51
Q69	8-729-116-64	s	TRANSISTOR 2SK508-K51
Q70	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q71	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q72	8-729-216-22	s	TRANSISTOR 2SA1162
Q73	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q74	8-729-216-22	s	TRANSISTOR 2SA1162
Q80	8-729-175-73	s	TRANSISTOR 2SC2757
Q81	8-729-175-73	s	TRANSISTOR 2SC2757
Q82	8-729-175-73	s	TRANSISTOR 2SC2757
Q83	8-729-175-73	s	TRANSISTOR 2SC2757
Q84	8-729-175-73	s	TRANSISTOR 2SC2757
Q85	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q86	8-729-175-73	s	TRANSISTOR 2SC2757
Q87	8-729-122-63	s	TRANSISTOR 2SA1226
Q88	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q89	8-729-200-87	s	TRANSISTOR 2SC2714Y
Q90	8-729-122-63	s	TRANSISTOR 2SA1226
Q91	8-729-109-44	s	TRANSISTOR 2SK94
Q92	8-729-116-64	s	TRANSISTOR 2SK508-K51
Q93	8-729-116-64	s	TRANSISTOR 2SK508-K51
Q94	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q95	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q96	8-729-122-63	s	TRANSISTOR 2SA1226
Q97	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q98	8-729-200-87	s	TRANSISTOR 2SC2714Y
Q99	8-729-116-64	s	TRANSISTOR 2SK508-K51
Q100	8-729-200-87	s	TRANSISTOR 2SC2714Y
Q101	8-729-122-63	s	TRANSISTOR 2SA1226
Q102	8-729-109-44	s	TRANSISTOR 2SK94
Q103	8-729-116-64	s	TRANSISTOR 2SK508-K51
Q104	8-729-116-64	s	TRANSISTOR 2SK508-K51
Q105	8-729-112-65	s	TRANSISTOR 2SA1462-Y33
Q106	8-729-175-73	s	TRANSISTOR 2SC2757
Q110	8-729-403-29	s	TRANSISTOR XN6435
Q111	8-729-403-32	s	TRANSISTOR XN6534
Q112	8-729-403-29	s	TRANSISTOR XN6435
Q113	8-729-403-29	s	TRANSISTOR XN6435
Q114	8-729-403-32	s	TRANSISTOR XN6534
Q115	8-729-403-29	s	TRANSISTOR XN6435
Q116	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q117	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q118	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q119	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6

NOTE : Please see page 1-11 for the parts that are not listed in the parts list.

(DM-94 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
Q120	8-729-216-22	s	TRANSISTOR 2SA1162
Q121	8-729-216-22	s	TRANSISTOR 2SA1162
Q122	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q123	8-729-216-22	s	TRANSISTOR 2SA1162
Q126	8-729-175-73	s	TRANSISTOR 2SC2757
Q127	8-729-175-73	s	TRANSISTOR 2SC2757
Q128	8-729-175-73	s	TRANSISTOR 2SC2757
Q129	8-729-175-73	s	TRANSISTOR 2SC2757
Q130	8-729-175-73	s	TRANSISTOR 2SC2757
Q131	8-729-175-73	s	TRANSISTOR 2SC2757
Q132	8-729-200-87	s	TRANSISTOR 2SC2714Y
Q133	8-729-122-63	s	TRANSISTOR 2SA1226
Q134	8-729-175-73	s	TRANSISTOR 2SC2757
Q135	8-729-200-87	s	TRANSISTOR 2SC2714Y
Q136	8-729-122-63	s	TRANSISTOR 2SA1226
Q137	8-729-216-22	s	TRANSISTOR 2SA1162
Q138	8-729-216-22	s	TRANSISTOR 2SA1162
Q139	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q140	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q141	8-729-175-73	s	TRANSISTOR 2SC2757
Q142	8-729-175-73	s	TRANSISTOR 2SC2757
Q143	8-729-175-73	s	TRANSISTOR 2SC2757
Q144	8-766-001-20	s	TRANSISTOR SGM2006M
Q145	8-729-101-07	s	TRANSISTOR 2SB798
Q146	8-729-807-51	s	TRANSISTOR 2SD1623-S
Q147	8-729-101-07	s	TRANSISTOR 2SB798
Q148	8-729-402-19	s	TRANSISTOR XN6501
Q149	8-729-402-19	s	TRANSISTOR XN6501
Q150	8-729-402-19	s	TRANSISTOR XN6501
Q151	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q152	8-729-216-22	s	TRANSISTOR 2SA1162
Q153	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q154	8-729-216-22	s	TRANSISTOR 2SA1162
Q155	8-729-175-73	s	TRANSISTOR 2SC2757
Q156	8-729-175-73	s	TRANSISTOR 2SC2757
Q157	8-729-216-22	s	TRANSISTOR 2SA1162
Q158	8-729-905-18	s	TRANSISTOR DTC144EU
Q159	8-729-216-22	s	TRANSISTOR 2SA1162
Q160	8-729-905-18	s	TRANSISTOR DTC144EU
Q161	8-729-216-22	s	TRANSISTOR 2SA1162
Q162	8-729-905-18	s	TRANSISTOR DTC144EU
Q163	8-729-216-22	s	TRANSISTOR 2SA1162
Q164	8-729-905-18	s	TRANSISTOR DTC144EU
Q165	8-729-905-12	s	TRANSISTOR DTA144EU
Q166	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q167	8-729-905-12	s	TRANSISTOR DTA144EU
Q168	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q170	8-729-175-73	s	TRANSISTOR 2SC2757
Q171	8-729-175-73	s	TRANSISTOR 2SC2757
Q172	8-729-175-73	s	TRANSISTOR 2SC2757
Q173	8-729-175-73	s	TRANSISTOR 2SC2757
Q174	8-729-175-73	s	TRANSISTOR 2SC2757
Q175	8-729-175-73	s	TRANSISTOR 2SC2757
Q176	8-729-175-73	s	TRANSISTOR 2SC2757
Q177	8-729-175-73	s	TRANSISTOR 2SC2757
Q178	8-729-175-73	s	TRANSISTOR 2SC2757
Q179	8-729-175-73	s	TRANSISTOR 2SC2757
Q180	8-729-122-63	s	TRANSISTOR 2SA1226
Q181	8-729-122-63	s	TRANSISTOR 2SA1226

(DM-94 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
Q182	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q183	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q184	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q185	8-729-122-63	s	TRANSISTOR 2SA1226
Q186	8-729-905-12	s	TRANSISTOR DTA144EU
Q187	8-729-905-12	s	TRANSISTOR DTA144EU
Q188	8-729-905-18	s	TRANSISTOR DTC144EU
R1	1-216-624-11	s	METAL 75 0.50% 1/10W
R8	1-208-767-11	s	METAL, CHIP 240 0.50% 1/10W
R9	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R10	1-216-663-11	s	METAL, CHIP 3.3K 0.5% 1/10W
R13	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R14	1-216-638-11	s	METAL 300 0.50% 1/10W
R20	1-208-767-11	s	METAL, CHIP 240 0.50% 1/10W
R21	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R22	1-216-663-11	s	METAL, CHIP 3.3K 0.5% 1/10W
R25	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R26	1-216-638-11	s	METAL 300 0.50% 1/10W
R32	1-208-767-11	s	METAL, CHIP 240 0.50% 1/10W
R33	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R34	1-216-663-11	s	METAL, CHIP 3.3K 0.5% 1/10W
R38	1-216-638-11	s	METAL 300 0.50% 1/10W
R42	1-216-063-91	s	METAL, CHIP 3.9K 5% 1/10W
R43	1-216-089-91	s	METAL 47K 5% 1/10W
R44	1-216-637-11	s	METAL, CHIP 270 0.5% 1/10W
R45	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R46	1-216-663-11	s	METAL, CHIP 3.3K 0.5% 1/10W
R48	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R49	1-216-638-11	s	METAL 300 0.50% 1/10W
R57	1-208-767-11	s	METAL, CHIP 240 0.50% 1/10W
R58	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R59	1-216-663-11	s	METAL, CHIP 3.3K 0.5% 1/10W
R62	1-208-799-11	s	METAL, CHIP 5.1K 0.50% 1/10W
R63	1-216-635-11	s	METAL, CHIP 220 0.5% 1/10W
R73	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R74	1-208-784-11	s	METAL, CHIP 1.2K 0.50% 1/10W
R75	1-208-800-11	s	METAL, CHIP 5.6K 0.50% 1/10W
R77	1-208-810-11	s	METAL, CHIP 15K 0.50% 1/10W
R78	1-216-657-11	s	METAL, CHIP 1.8K 0.5% 1/10W
R79	1-216-673-11	s	METAL, CHIP 8.2K 0.5% 1/10W
R80	1-208-774-11	s	METAL, CHIP 470 0.50% 1/10W
R81	1-216-665-11	s	METAL, CHIP 3.9K 0.5% 1/10W
R85	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R86	1-216-121-91	s	METAL, CHIP 1M 5% 1/10W
R88	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R89	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R90	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R94	1-216-105-91	s	METAL, CHIP 220K 5% 1/10W
R96	1-216-627-11	s	METAL, CHIP 100 0.50% 1/10W
R103	1-208-767-11	s	METAL, CHIP 240 0.50% 1/10W
R104	1-216-647-11	s	METAL, CHIP 680 0.5% 1/10W
R105	1-216-661-11	s	METAL, CHIP 2.7K 0.5% 1/10W
R106	1-216-661-11	s	METAL, CHIP 2.7K 0.5% 1/10W
R107	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R108	1-216-671-11	s	METAL, CHIP 6.8K 0.50% 1/10W
R109	1-216-638-11	s	METAL 300 0.50% 1/10W
R115	1-208-767-11	s	METAL, CHIP 240 0.50% 1/10W
R116	1-216-647-11	s	METAL, CHIP 680 0.5% 1/10W

NOTE : Please see page 1-11 for the parts that are not listed in the parts list.

(DM-94 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R117	1-216-661-11	s	METAL, CHIP 2.7K 0.5% 1/10W
R118	1-216-661-11	s	METAL, CHIP 2.7K 0.5% 1/10W
R119	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R120	1-216-671-11	s	METAL, CHIP 6.8K 0.50% 1/10W
R121	1-216-638-11	s	METAL 300 0.50% 1/10W
R127	1-208-767-11	s	METAL, CHIP 240 0.50% 1/10W
R128	1-216-647-11	s	METAL, CHIP 680 0.5% 1/10W
R129	1-216-661-11	s	METAL, CHIP 2.7K 0.5% 1/10W
R130	1-216-661-11	s	METAL, CHIP 2.7K 0.5% 1/10W
R131	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R132	1-216-671-11	s	METAL, CHIP 6.8K 0.50% 1/10W
R133	1-216-638-11	s	METAL 300 0.50% 1/10W
R139	1-208-767-11	s	METAL, CHIP 240 0.50% 1/10W
R140	1-216-647-11	s	METAL, CHIP 680 0.5% 1/10W
R141	1-216-661-11	s	METAL, CHIP 2.7K 0.5% 1/10W
R142	1-216-661-11	s	METAL, CHIP 2.7K 0.5% 1/10W
R143	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R144	1-216-671-11	s	METAL, CHIP 6.8K 0.50% 1/10W
R145	1-216-638-11	s	METAL 300 0.50% 1/10W
R153	1-208-767-11	s	METAL, CHIP 240 0.50% 1/10W
R154	1-216-647-11	s	METAL, CHIP 680 0.5% 1/10W
R155	1-216-661-11	s	METAL, CHIP 2.7K 0.5% 1/10W
R156	1-216-661-11	s	METAL, CHIP 2.7K 0.5% 1/10W
R157	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R158	1-216-671-11	s	METAL, CHIP 6.8K 0.50% 1/10W
R160	1-216-635-11	s	METAL, CHIP 220 0.5% 1/10W
R180	1-208-771-11	s	METAL, CHIP 360 0.50% 1/10W
R181	1-216-650-11	s	METAL, CHIP 910 0.50% 1/10W
R182	1-216-637-11	s	METAL, CHIP 270 0.5% 1/10W
R183	1-216-649-11	s	METAL, CHIP 820 0.50% 1/10W
R184	1-216-637-11	s	METAL, CHIP 270 0.5% 1/10W
R185	1-216-637-11	s	METAL, CHIP 270 0.5% 1/10W
R186	1-216-673-11	s	METAL, CHIP 8.2K 0.5% 1/10W
R187	1-208-789-11	s	METAL, CHIP 2K 0.50% 1/10W
R188	1-216-063-91	s	METAL, CHIP 3.9K 5% 1/10W
R189	1-216-063-91	s	METAL, CHIP 3.9K 5% 1/10W
R191	1-216-661-11	s	METAL, CHIP 2.7K 0.5% 1/10W
R192	1-216-663-11	s	METAL, CHIP 3.3K 0.5% 1/10W
R196	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R201	1-216-121-91	s	METAL, CHIP 1M 5% 1/10W
R203	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R204	1-208-810-11	s	METAL, CHIP 15K 0.50% 1/10W
R207	1-208-774-11	s	METAL, CHIP 470 0.50% 1/10W
R208	1-218-772-11	s	METAL 680K 0.50% 1/10W
R209	1-216-661-11	s	METAL, CHIP 2.7K 0.5% 1/10W
R214	1-216-694-11	s	METAL, CHIP 62K 0.50% 1/10W
R216	1-216-657-11	s	METAL, CHIP 1.8K 0.5% 1/10W
R217	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R220	1-216-662-11	s	METAL 3K 0.50% 1/10W
R224	1-208-784-11	s	METAL, CHIP 1.2K 0.50% 1/10W
R229	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R231	1-216-666-11	s	METAL, CHIP 4.3K 0.5% 1/10W
R234	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R235	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R236	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R237	1-208-801-11	s	METAL, CHIP 6.2K 0.50% 1/10W
R238	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R239	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R240	1-216-661-11	s	METAL, CHIP 2.7K 0.5% 1/10W

(DM-94 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R248	1-208-774-11	s	METAL, CHIP 470 0.50% 1/10W
R249	1-216-665-11	s	METAL, CHIP 3.9K 0.5% 1/10W
R250	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R251	1-216-664-11	s	METAL 3.6K 0.50% 1/10W
R252	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R253	1-208-812-11	s	METAL, CHIP 18K 0.50% 1/10W
R254	1-216-659-11	s	METAL, CHIP 2.2K 0.5% 1/10W
R260	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R261	1-216-105-91	s	METAL, CHIP 220K 5% 1/10W
R262	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R263	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R265	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R267	1-216-673-11	s	METAL, CHIP 8.2K 0.5% 1/10W
R268	1-208-774-11	s	METAL, CHIP 470 0.50% 1/10W
R269	1-216-657-11	s	METAL, CHIP 1.8K 0.5% 1/10W
R270	1-208-774-11	s	METAL, CHIP 470 0.50% 1/10W
R272	1-208-774-11	s	METAL, CHIP 470 0.50% 1/10W
R273	1-208-774-11	s	METAL, CHIP 470 0.50% 1/10W
R274	1-208-774-11	s	METAL, CHIP 470 0.50% 1/10W
R275	1-208-801-11	s	METAL, CHIP 6.2K 0.50% 1/10W
R276	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R277	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R278	1-216-661-11	s	METAL, CHIP 2.7K 0.5% 1/10W
R286	1-216-663-11	s	METAL, CHIP 3.3K 0.5% 1/10W
R287	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R288	1-216-631-11	s	METAL 150 0.50% 1/10W
R289	1-216-639-11	s	METAL, CHIP 330 0.5% 1/10W
R290	1-216-631-11	s	METAL 150 0.50% 1/10W
R291	1-208-775-11	s	METAL, CHIP 510 0.50% 1/10W
R292	1-208-775-11	s	METAL, CHIP 510 0.50% 1/10W
R293	1-216-678-11	s	METAL, CHIP 13K 0.50% 1/10W
R294	1-216-685-11	s	METAL, CHIP 27K 0.5% 1/10W
R297	1-216-645-11	s	METAL 560 0.50% 1/10W
R298	1-208-775-11	s	METAL, CHIP 510 0.50% 1/10W
R300	1-208-775-11	s	METAL, CHIP 510 0.50% 1/10W
R302	1-208-785-11	s	METAL, CHIP 1.3K 0.50% 1/10W
R306	1-216-603-11	s	METAL, CHIP 10 0.50% 1/10W
R307	1-218-768-11	s	METAL 470K 0.50% 1/10W
R308	1-208-800-11	s	METAL, CHIP 5.6K 0.50% 1/10W
R309	1-216-089-91	s	METAL 47K 5% 1/10W
R314	1-216-690-11	s	METAL 43K 0.50% 1/10W
R315	1-208-801-11	s	METAL, CHIP 6.2K 0.50% 1/10W
R316	1-216-121-91	s	METAL, CHIP 1M 5% 1/10W
R318	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R319	1-208-811-11	s	METAL 16K 0.50% 1/10W
R320	1-216-663-11	s	METAL, CHIP 3.3K 0.5% 1/10W
R321	1-208-810-11	s	METAL, CHIP 15K 0.50% 1/10W
R322	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R325	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R326	1-208-800-11	s	METAL, CHIP 5.6K 0.50% 1/10W
R327	1-208-799-11	s	METAL, CHIP 5.1K 0.50% 1/10W
R328	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R350	1-216-652-11	s	METAL, CHIP 1.1K 0.5% 1/10W
R351	1-216-638-11	s	METAL 300 0.50% 1/10W
R352	1-216-638-11	s	METAL 300 0.50% 1/10W
R353	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R354	1-216-638-11	s	METAL 300 0.50% 1/10W
R355	1-216-638-11	s	METAL 300 0.50% 1/10W
R356	1-216-661-11	s	METAL, CHIP 2.7K 0.5% 1/10W

NOTE : Please see page 1-11 for the parts that are not listed in the parts list.

(DM-94 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R358	1-216-665-11	s	METAL, CHIP 3.9K 0.5% 1/10W
R359	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R360	1-216-063-91	s	METAL, CHIP 3.9K 5% 1/10W
R361	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R362	1-216-660-11	s	METAL 2.4K 0.50% 1/10W
R364	1-216-660-11	s	METAL, CHIP 2.4K 0.50% 1/10W
R365	1-208-789-11	s	METAL, CHIP 2K 0.50% 1/10W
R367	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R368	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R370	1-216-121-91	s	METAL, CHIP 1M 5% 1/10W
R371	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R376	1-216-121-91	s	METAL, CHIP 1M 5% 1/10W
R378	1-208-801-11	s	METAL, CHIP 6.2K 0.50% 1/10W
R379	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R380	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R381	1-216-661-11	s	METAL, CHIP 2.7K 0.5% 1/10W
R389	1-216-663-11	s	METAL, CHIP 3.3K 0.5% 1/10W
R390	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R391	1-216-649-11	s	METAL, CHIP 820 0.50% 1/10W
R392	1-208-775-11	s	METAL, CHIP 510 0.50% 1/10W
R393	1-216-649-11	s	METAL, CHIP 820 0.50% 1/10W
R394	1-216-647-11	s	METAL, CHIP 680 0.5% 1/10W
R395	1-216-647-11	s	METAL, CHIP 680 0.5% 1/10W
R396	1-216-685-11	s	METAL, CHIP 27K 0.5% 1/10W
R397	1-216-673-11	s	METAL, CHIP 8.2K 0.5% 1/10W
R398	1-208-800-11	s	METAL, CHIP 5.6K 0.50% 1/10W
R400	1-216-089-91	s	METAL 47K 5% 1/10W
R401	1-208-822-11	s	METAL, CHIP 47K 0.50% 1/10W
R402	1-216-663-11	s	METAL, CHIP 3.3K 0.5% 1/10W
R405	1-208-774-11	s	METAL, CHIP 470 0.50% 1/10W
R406	1-208-810-11	s	METAL, CHIP 15K 0.50% 1/10W
R407	1-216-655-11	s	METAL, CHIP 1.5K 0.50% 1/10W
R412	1-216-603-11	s	METAL, CHIP 10 0.50% 1/10W
R413	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R415	1-216-121-91	s	METAL, CHIP 1M 5% 1/10W
R418	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R419	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R420	1-208-824-11	s	METAL, CHIP 56K 0.50% 1/10W
R421	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R423	1-218-760-11	s	METAL, CHIP 220K 0.50% 1/10W
R424	1-208-801-11	s	METAL, CHIP 6.2K 0.50% 1/10W
R425	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R428	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R429	1-208-774-11	s	METAL, CHIP 470 0.50% 1/10W
R431	1-208-774-11	s	METAL, CHIP 470 0.50% 1/10W
R435	1-216-697-91	s	METAL, CHIP 82K 0.50% 1/10W
R436	1-216-655-11	s	METAL, CHIP 1.5K 0.50% 1/10W
R440	1-208-801-11	s	METAL, CHIP 6.2K 0.50% 1/10W
R441	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R442	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R443	1-216-661-11	s	METAL, CHIP 2.7K 0.5% 1/10W
R451	1-216-663-11	s	METAL, CHIP 3.3K 0.5% 1/10W
R452	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R453	1-216-638-11	s	METAL 300 0.50% 1/10W
R454	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R455	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R456	1-216-647-11	s	METAL, CHIP 680 0.5% 1/10W
R457	1-216-647-11	s	METAL, CHIP 680 0.5% 1/10W
R458	1-216-685-11	s	METAL, CHIP 27K 0.5% 1/10W

NOTE : Please see page 1-11 for the parts that are not listed in the parts list.

(DM-94 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R459	1-216-673-11	s	METAL, CHIP 8.2K 0.5% 1/10W
R460	1-216-655-11	s	METAL, CHIP 1.5K 0.50% 1/10W
R463	1-216-089-91	s	METAL 47K 5% 1/10W
R464	1-208-822-11	s	METAL, CHIP 47K 0.50% 1/10W
R465	1-216-662-11	s	METAL 3K 0.50% 1/10W
R468	1-208-774-11	s	METAL, CHIP 470 0.50% 1/10W
R469	1-208-810-11	s	METAL, CHIP 15K 0.50% 1/10W
R470	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R471	1-208-784-11	s	METAL, CHIP 1.2K 0.50% 1/10W
R477	1-216-121-91	s	METAL, CHIP 1M 5% 1/10W
R480	1-216-677-11	s	METAL, CHIP 12K 0.5% 1/10W
R481	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R482	1-216-685-11	s	METAL, CHIP 27K 0.5% 1/10W
R484	1-218-760-11	s	METAL, CHIP 220K 0.50% 1/10W
R485	1-216-651-11	s	METAL, CHIP 1.0K 0.5% 1/10W
R486	1-208-803-11	s	METAL, CHIP 7.5K 0.50% 1/10W
R487	1-216-648-11	s	METAL, CHIP 750 0.50% 1/10W
R491	1-216-655-11	s	METAL, CHIP 1.5K 0.50% 1/10W
R492	1-216-697-91	s	METAL, CHIP 82K 0.50% 1/10W
R493	1-216-603-11	s	METAL, CHIP 10 0.50% 1/10W
R527	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R552	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R553	1-208-800-11	s	METAL, CHIP 5.6K 0.50% 1/10W
R554	1-216-697-91	s	METAL, CHIP 82K 0.50% 1/10W
R555	1-216-689-11	s	METAL, CHIP 39K 0.5% 1/10W
R557	1-216-689-11	s	METAL, CHIP 39K 0.5% 1/10W
R558	1-216-666-11	s	METAL, CHIP 4.3K 0.5% 1/10W
R573	1-216-121-91	s	METAL, CHIP 1M 5% 1/10W
R576	1-216-685-11	s	METAL, CHIP 27K 0.5% 1/10W
R577	1-216-649-11	s	METAL, CHIP 820 0.50% 1/10W
R578	1-216-647-11	s	METAL, CHIP 680 0.5% 1/10W
R581	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R583	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R585	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R590	1-208-784-11	s	METAL, CHIP 1.2K 0.50% 1/10W
R592	1-216-659-11	s	METAL, CHIP 2.2K 0.5% 1/10W
R593	1-216-657-11	s	METAL, CHIP 1.8K 0.5% 1/10W
R594	1-216-649-11	s	METAL, CHIP 820 0.50% 1/10W
R595	1-216-678-11	s	METAL, CHIP 13K 0.50% 1/10W
R596	1-208-784-11	s	METAL, CHIP 1.2K 0.50% 1/10W
R606	1-216-621-11	s	METAL, CHIP 56 0.50% 1/10W
R607	1-216-682-11	s	METAL, CHIP 20K 0.5% 1/10W
R608	1-216-685-11	s	METAL, CHIP 27K 0.5% 1/10W
R609	1-216-649-11	s	METAL, CHIP 820 0.50% 1/10W
R610	1-216-639-11	s	METAL, CHIP 330 0.5% 1/10W
R611	1-216-619-11	s	METAL, CHIP 47 0.50% 1/10W
R612	1-208-774-11	s	METAL, CHIP 470 0.50% 1/10W
R613	1-208-774-11	s	METAL, CHIP 470 0.50% 1/10W
R614	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R615	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R617	1-216-619-11	s	METAL, CHIP 47 0.50% 1/10W
R619	1-216-619-11	s	METAL, CHIP 47 0.50% 1/10W
R620	1-216-121-91	s	METAL, CHIP 1M 5% 1/10W
R621	1-208-774-11	s	METAL, CHIP 470 0.50% 1/10W
R622	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R623	1-208-767-11	s	METAL, CHIP 240 0.50% 1/10W
R624	1-208-784-11	s	METAL, CHIP 1.2K 0.50% 1/10W
R625	1-208-775-11	s	METAL, CHIP 510 0.50% 1/10W
R630	1-216-623-11	s	METAL 68 0.50% 1/10W

(DM-94 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R633	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R636	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R638	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R640	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R642	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R643	1-216-063-91	s	METAL, CHIP 3.9K 5% 1/10W
R644	1-218-761-11	s	METAL 240K 0.50% 1/10W
R645	1-218-756-11	s	METAL 150K 0.50% 1/10W
R647	1-216-660-11	s	METAL 2.4K 0.50% 1/10W
R648	1-216-627-11	s	METAL, CHIP 100 0.50% 1/10W
R649	1-216-661-11	s	METAL, CHIP 2.7K 0.5% 1/10W
R650	1-216-664-11	s	METAL 3.6K 0.50% 1/10W
R651	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R652	1-208-774-11	s	METAL, CHIP 470 0.50% 1/10W
R653	1-216-627-11	s	METAL, CHIP 100 0.50% 1/10W
R654	1-216-627-11	s	METAL, CHIP 100 0.50% 1/10W
R655	1-216-655-11	s	METAL, CHIP 1.5K 0.50% 1/10W
R656	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R657	1-216-664-11	s	METAL 3.6K 0.50% 1/10W
R658	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R659	1-216-634-11	s	METAL, CHIP 200 0.50% 1/10W
R662	1-216-624-11	s	METAL 75 0.50% 1/10W
R663	1-216-687-11	s	METAL, CHIP 33K 0.5% 1/10W
R664	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R665	1-208-822-11	s	METAL, CHIP 47K 0.50% 1/10W
R666	1-216-657-11	s	METAL, CHIP 1.8K 0.5% 1/10W
R668	1-216-647-11	s	METAL, CHIP 680 0.5% 1/10W
R669	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R671	1-216-063-91	s	METAL, CHIP 3.9K 5% 1/10W
R673	1-216-619-11	s	METAL, CHIP 47 0.50% 1/10W
R674	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R677	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R679	1-208-789-11	s	METAL, CHIP 2K 0.50% 1/10W
R681	1-216-657-11	s	METAL, CHIP 1.8K 0.5% 1/10W
R683	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R684	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R685	1-216-624-11	s	METAL 75 0.50% 1/10W
R687	1-216-063-91	s	METAL, CHIP 3.9K 5% 1/10W
R692	1-216-663-11	s	METAL, CHIP 3.3K 0.5% 1/10W
R693	1-216-677-11	s	METAL, CHIP 12K 0.5% 1/10W
R696	1-216-663-11	s	METAL, CHIP 3.3K 0.5% 1/10W
R697	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R698	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R699	1-216-677-11	s	METAL, CHIP 12K 0.5% 1/10W
R700	1-208-810-11	s	METAL, CHIP 15K 0.50% 1/10W
R701	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R702	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R703	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R704	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R709	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R710	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R715	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R716	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R717	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R718	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R721	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R722	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R723	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R724	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W

(DM-94 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R727	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R728	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R729	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R731	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R732	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R733	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R734	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R749	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R753	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R755	1-208-800-11	s	METAL, CHIP 5.6K 0.50% 1/10W
R756	1-216-627-11	s	METAL, CHIP 100 0.50% 1/10W
R757	1-216-665-11	s	METAL, CHIP 3.9K 0.5% 1/10W
R758	1-208-810-11	s	METAL, CHIP 15K 0.50% 1/10W
R759	1-216-649-11	s	METAL, CHIP 820 0.50% 1/10W
R760	1-216-611-11	s	METAL, CHIP 22 0.50% 1/10W
R761	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R762	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R763	1-216-121-91	s	METAL, CHIP 1M 5% 1/10W
R764	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R767	1-208-800-11	s	METAL, CHIP 5.6K 0.50% 1/10W
R769	1-216-664-11	s	METAL 3.6K 0.50% 1/10W
R770	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R772	1-208-810-11	s	METAL, CHIP 15K 0.50% 1/10W
R778	1-216-665-11	s	METAL, CHIP 3.9K 0.5% 1/10W
R791	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R792	1-216-659-11	s	METAL, CHIP 2.2K 0.5% 1/10W
R793	1-216-661-11	s	METAL, CHIP 2.7K 0.5% 1/10W
R794	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R795	1-216-671-11	s	METAL, CHIP 6.8K 0.50% 1/10W
R797	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R798	1-216-659-11	s	METAL, CHIP 2.2K 0.5% 1/10W
R799	1-216-661-11	s	METAL, CHIP 2.7K 0.5% 1/10W
R800	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R801	1-216-671-11	s	METAL, CHIP 6.8K 0.50% 1/10W
R803	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R804	1-216-659-11	s	METAL, CHIP 2.2K 0.5% 1/10W
R805	1-216-661-11	s	METAL, CHIP 2.7K 0.5% 1/10W
R806	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R807	1-216-671-11	s	METAL, CHIP 6.8K 0.50% 1/10W
R809	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R810	1-216-659-11	s	METAL, CHIP 2.2K 0.5% 1/10W
R811	1-216-655-11	s	METAL, CHIP 1.5K 0.50% 1/10W
R812	1-216-671-11	s	METAL, CHIP 6.8K 0.50% 1/10W
R813	1-216-671-11	s	METAL, CHIP 6.8K 0.50% 1/10W
R816	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R817	1-216-659-11	s	METAL, CHIP 2.2K 0.5% 1/10W
R818	1-216-660-11	s	METAL 2.4K 0.50% 1/10W
R819	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R820	1-216-663-11	s	METAL, CHIP 3.3K 0.5% 1/10W
R822	1-216-648-11	s	METAL, CHIP 750 0.50% 1/10W
R823	1-208-789-11	s	METAL, CHIP 2K 0.50% 1/10W
R824	1-216-627-11	s	METAL, CHIP 100 0.50% 1/10W
R825	1-218-756-11	s	METAL 150K 0.50% 1/10W
R827	1-216-648-11	s	METAL, CHIP 750 0.50% 1/10W
R828	1-216-627-11	s	METAL, CHIP 100 0.50% 1/10W
R829	1-208-789-11	s	METAL, CHIP 2K 0.50% 1/10W
R830	1-218-756-11	s	METAL 150K 0.50% 1/10W
R832	1-216-648-11	s	METAL, CHIP 750 0.50% 1/10W
R833	1-208-789-11	s	METAL, CHIP 2K 0.50% 1/10W

NOTE : Please see page 1-11 for the parts that are not listed in the parts list.

(DM-94 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R834	1-216-627-11	s	METAL, CHIP 100 0.50% 1/10W
R835	1-218-756-11	s	METAL 150K 0.50% 1/10W
R837	1-216-655-11	s	METAL, CHIP 1.5K 0.50% 1/10W
R838	1-208-789-11	s	METAL, CHIP 2K 0.50% 1/10W
R839	1-216-627-11	s	METAL, CHIP 100 0.50% 1/10W
R840	1-218-756-11	s	METAL 150K 0.50% 1/10W
R843	1-216-648-11	s	METAL, CHIP 750 0.50% 1/10W
R844	1-208-789-11	s	METAL, CHIP 2K 0.50% 1/10W
R845	1-216-627-11	s	METAL, CHIP 100 0.50% 1/10W
R846	1-218-756-11	s	METAL 150K 0.50% 1/10W
R860	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R862	1-216-663-11	s	METAL, CHIP 3.3K 0.5% 1/10W
R863	1-208-774-11	s	METAL, CHIP 470 0.50% 1/10W
R864	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R865	1-216-661-11	s	METAL, CHIP 2.7K 0.5% 1/10W
R866	1-216-663-11	s	METAL, CHIP 3.3K 0.5% 1/10W
R867	1-208-774-11	s	METAL, CHIP 470 0.50% 1/10W
R868	1-216-663-11	s	METAL, CHIP 3.3K 0.5% 1/10W
R869	1-216-661-11	s	METAL, CHIP 2.7K 0.5% 1/10W
R870	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R871	1-216-639-11	s	METAL, CHIP 330 0.5% 1/10W
R872	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R874	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R875	1-208-800-11	s	METAL, CHIP 5.6K 0.50% 1/10W
R876	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R877	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R878	1-216-659-11	s	METAL, CHIP 2.2K 0.5% 1/10W
R879	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R880	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R881	1-216-627-11	s	METAL, CHIP 100 0.50% 1/10W
R882	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R884	1-216-663-11	s	METAL, CHIP 3.3K 0.5% 1/10W
R885	1-216-659-11	s	METAL, CHIP 2.2K 0.5% 1/10W
R886	1-208-774-11	s	METAL, CHIP 470 0.50% 1/10W
R887	1-216-663-11	s	METAL, CHIP 3.3K 0.5% 1/10W
R889	1-208-785-11	s	METAL, CHIP 1.3K 0.50% 1/10W
R890	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R891	1-216-666-11	s	METAL, CHIP 4.3K 0.5% 1/10W
R892	1-216-627-11	s	METAL, CHIP 100 0.50% 1/10W
R894	1-208-784-11	s	METAL, CHIP 1.2K 0.50% 1/10W
R898	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R903	1-216-650-11	s	METAL, CHIP 910 0.50% 1/10W
R908	1-208-822-11	s	METAL, CHIP 47K 0.50% 1/10W
R909	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R910	1-208-822-11	s	METAL, CHIP 47K 0.50% 1/10W
R911	1-216-647-11	s	METAL, CHIP 680 0.5% 1/10W
R913	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R914	1-216-105-91	s	METAL, CHIP 220K 5% 1/10W
R915	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R917	1-208-823-11	s	METAL, CHIP 51K 0.50% 1/10W
R918	1-208-823-11	s	METAL, CHIP 51K 0.50% 1/10W
R919	1-216-689-11	s	METAL, CHIP 39K 0.5% 1/10W
R920	1-216-625-11	s	METAL, CHIP 82 0.5% 1/10W
RV1	1-228-455-00	s	RES, ADJ, METAL 500
RV2	1-228-457-00	s	RES, ADJ, METAL 2K
RV3	1-228-461-00	s	RES, ADJ, METAL 50K
RV4	1-228-457-00	s	RES, ADJ, METAL 2K
RV5	1-228-457-00	s	RES, ADJ, METAL 2K
RV6	1-228-460-00	s	RES, ADJ, METAL 20K
RV7	1-228-459-00	s	RES, ADJ, METAL 10K
RV8	1-228-457-00	s	RES, ADJ, METAL 2K
RV9	1-228-472-00	s	RES, ADJ, METAL 2K
RV10	1-228-457-00	s	RES, ADJ, METAL 2K
RV11	1-228-457-00	s	RES, ADJ, METAL 2K
RV12	1-228-471-00	s	RES, ADJ, METAL 1K
RV13	1-228-458-00	s	RES, ADJ, METAL 5K
RV14	1-228-460-00	s	RES, ADJ, METAL 20K
RV15	1-228-459-00	s	RES, ADJ, METAL 10K
RV16	1-228-457-00	s	RES, ADJ, METAL 2K
RV17	1-228-471-00	s	RES, ADJ, METAL 1K
RV18	1-228-458-00	s	RES, ADJ, METAL 5K
RV19	1-228-458-00	s	RES, ADJ, METAL 5K
RV20	1-228-455-00	s	RES, ADJ, METAL 500
RV21	1-228-466-00	s	RES, ADJ, METAL 2M
RV22	1-228-460-00	s	RES, ADJ, METAL 20K
RV23	1-228-456-00	s	RES, ADJ, METAL 1K
RV24	1-228-460-00	s	RES, ADJ, METAL 20K
S1	1-570-857-11	s	SWITCH, SLIDE
S2	1-692-066-11	s	SWITCH, ROTARY
S3	1-564-948-21	o	PIN, CONNECTOR 3P
S4	1-564-948-21	o	PIN, CONNECTOR 3P
S5	1-564-948-21	o	PIN, CONNECTOR 3P
S6	1-564-948-21	o	PIN, CONNECTOR 3P
SWF1	1-404-706-11	s	RESONATOR, SAW
T1	1-428-841-11	s	COIL, AIR CORE
X1	1-760-439-11	s	OSCILLATOR, CRYSTAL 22.5MHz
X2	1-760-438-11	s	CRYSTAL 45.00MHz
R363	1-216-059-00	s	METAL, CHIP 2.7K 50% 1/10W

NOTE : Please see page 1-11 for the parts that are not listed in the parts list.

FL-246 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8320-133-A	o	MOUNTED CIRCUIT BOARD, FL-246

IO-103 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8314-030-A	o	MOUNTED CIRCUIT BOARD, IO-103
1pc	1-562-210-11	o	CONTACT, FEMALE AWG18-22
1pc	1-562-286-11	o	HOUSING, 5P
C1	1-161-744-51	s	CERAMIC 0.01uF 400V
C2	1-161-744-51	s	CERAMIC 0.01uF 400V
C3	1-136-206-11	s	FILM 0.033uF 5% 630
C4	1-136-202-11	s	FILM 0.33uF 5% 400V
CN1	1-564-104-00	o	PIN, CONNECTOR (B3P-VH) 3P
CN2	1-750-880-11	s	RECEPTACLE, COAXIAL CONNECTOR, BNC
L1	1-410-151-11	s	INDUCTOR 56uH
L2	1-408-142-21	s	INDUCTOR MICRO 22.5mH
L3	1-410-253-11	s	COIL, CHOKE (TROIDAL) 80uH
L4	1-403-607-12	s	COIL, CHOKE 91uH

LE-133 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-660-104-11	o	PRINTED CIRCUIT BOARD, LE-133
CR401	1-809-488-11	s	DIODE LD-101MG
CR402	1-809-488-11	s	DIODE LD-101MG
CR403	8-719-940-87	s	LED LD-101VR, RED
CR404	8-719-940-87	s	LED LD-101VR, RED
CR405	8-719-045-44	s	DIODE GL3EG44
CR406	8-719-045-44	s	DIODE GL3EG44
CR407	8-719-045-44	s	DIODE GL3EG44
CR408	8-719-045-44	s	DIODE GL3EG44
CR409	8-719-045-44	s	DIODE GL3EG44
CR410	8-719-045-44	s	DIODE GL3EG44
CR411	8-719-032-78	s	DIODE GL3UR8
CR412	8-719-032-78	s	DIODE GL3UR8
CR413	8-719-032-78	s	DIODE GL3UR8
CR414	8-719-032-78	s	DIODE GL3UR8
CR415	8-719-032-78	s	DIODE GL3UR8
CR416	8-719-032-78	s	DIODE GL3UR8
J15	1-564-717-11	o	PIN, CONNECTOR (SMALL TYPE)15P
J20	1-564-705-11	o	CONNECTOR, 3P, MALE

MB-563 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8314-024-A	o	MOUNTED CIRCUIT BOARD, MB-563
4pcs	3-531-576-11	s	RIVET
2pcs	3-693-964-01	o	SHEET,INSULATING
2pcs	3-693-964-01	o	SHEET,INSULATING
CN1	1-764-692-11	o	CONNECTOR, BOARD TO BOARD 96P
CN2	1-764-692-11	o	CONNECTOR, BOARD TO BOARD 96P
CN3	1-764-692-11	o	CONNECTOR, BOARD TO BOARD 96P
CN4	1-764-692-11	o	CONNECTOR, BOARD TO BOARD 96P
CN5	1-764-692-11	o	CONNECTOR, BOARD TO BOARD 96P
CN6	1-764-692-11	o	CONNECTOR, BOARD TO BOARD 96P
CN7	1-764-692-11	o	CONNECTOR, BOARD TO BOARD 96P
CN8	1-764-692-11	o	CONNECTOR, BOARD TO BOARD 96P
CN9	1-566-444-11	o	CONNECTOR, D-SUB 50P
CN10	1-564-687-11	o	PIN, CONNECTOR 3P
CN11	1-506-636-11	o	CONNECTOR, PS 14P
CN12	1-750-880-11	s	RECEPTACLE, COAXIAL CONNECTOR, BNC
CN13	1-573-727-11	s	CONNECTOR, FPC 25P
CN15	1-750-880-11	s	RECEPTACLE, COAXIAL CONNECTOR, BNC
CN16	1-506-639-11	o	CONNECTOR, PS 20P
CN17	1-506-471-11	o	PIN, CONNECTOR 6P
CN18	1-506-634-11	o	CONNECTOR, PS 10P
CN19	1-573-727-11	s	CONNECTOR, FPC 25P
CN20	1-506-469-11	s	CONNECTOR, 4P, MALE
CN21	1-506-632-11	o	CONNECTOR, PS 6P
CN22	1-506-471-11	o	PIN, CONNECTOR 6P
CN23	1-506-644-11	o	CONNECTOR, PS 30P
CN24	1-506-470-11	s	PIN, CONNECTOR 5P
CN25	1-506-633-11	o	CONNECTOR, PS 8P
CN26	1-506-472-11	s	CONNECTOR, 7P, MALE
CN27	1-506-468-11	o	CONNECTOR, 3P, MALE
CN28	1-506-477-11	o	CONNECTOR, 12P, MALE

PS-356 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-589-836-11	o	MOUNTED CIRCUIT BOARD, PS-356

PS-357 BOARD

or Q'ty	Part No.	SP	Description
1pc	1-589-837-11	o	MOUNTED CIRCUIT BOARD, PS-357

PS-480 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-475-446-11	o	MOUNTED CIRCUIT BOARD, PS-480

NOTE : Please see page 1-11 for the parts that are not listed in the parts list.

PS-481 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-475-447-11	o	MOUNTED CIRCUIT BOARD, PS-481

SW-958 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-669-659-11	o	MOUNTED CIRCUIT BOARD, SW-958
CN1	1-691-960-11	s	PIN, CONNECTOR 3P
CN2	1-779-671-11	o	PIN, CONNECTOR 5P
CN3	1-779-656-11	o	PIN, CONNECTOR 7P
S1	1-570-173-11	s	SWITCH VOLTAGE CHANGE

SW-959 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-669-660-11	o	MOUNTED CIRCUIT BOARD, SW-959
CN1	1-779-671-11	o	PIN, CONNECTOR 5P
S1	1-570-173-11	s	SWITCH VOLTAGE CHANGE

NOTE : Please see page 1-11 for the parts that are not listed in the parts list.

VA-156A/156B/156P BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8314-039-A	o	MOUNTED CIRCUIT BOARD, VA-156B [for CCU-700A(J)]
1pc	A-8314-031-A	o	MOUNTED CIRCUIT BOARD, VA-156A [for CCU-700A(UC)]
1pc	A-8265-852-A	o	MOUNTED CIRCUIT BOARD, VA-156P [for CCU-700AP(CE)]
1pc	1-562-372-00	s	SOCKET, SHORT 2P
4pcs	1-533-223-11	s	HOLDER, FUSE
2pcs	3-681-042-01	o	LEVER, PC BOARD(1)
2pcs	3-681-045-01	o	LEVER, PC BOARD(2)
1pc	3-683-019-01	o	PC BOARD PANEL VA/P [for CCU-700AP(CE)]
9pcs	7-682-903-11	s	SCREW +PWH 3X6
4pcs	7-626-320-11	s	PIN, SPRING 3X8
1pc	3-681-038-01	o	PC BOARD PANEL VA [for CCU-700A(J), CCU-700A(UC)]
1pc	3-681-020-01	o	PC SHIELD PLATE
4pcs	1-562-372-00	s	SOCKET, SHORT 2P
C1	1-126-391-11	s	ELECT 47uF 20% 6.3V
C2	1-126-391-11	s	ELECT 47uF 20% 6.3V
C5	1-163-227-11	s	CERAMIC, CHIP 10PF 5% 50V
C11	1-135-177-21	s	TANTALUM, CHIP 1uF 10% 25V
C14	1-126-391-11	s	ELECT 47uF 20% 6.3V
C16	1-135-259-11	s	TANTALUM, CHIP 10uF 20% 6.3V
C17	1-135-259-11	s	TANTALUM, CHIP 10uF 20% 6.3V
C21	1-163-229-11	s	CERAMIC 12PF 5% 50V
C22	1-126-391-11	s	ELECT 47uF 20% 6.3V
C24	1-135-259-11	s	TANTALUM, CHIP 10uF 20% 6.3V
C26	1-126-391-11	s	ELECT 47uF 20% 6.3V
C27	1-135-259-11	s	TANTALUM, CHIP 10uF 20% 6.3V
C29	1-135-259-11	s	TANTALUM, CHIP 10uF 20% 6.3V
C32	1-163-217-11	s	CERAMIC 1PF 0.25PF 50V
C43	1-126-391-11	s	ELECT 47uF 20% 6.3V
C44	1-126-391-11	s	ELECT 47uF 20% 6.3V
C47	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C125	1-126-391-11	s	ELECT 47uF 20% 6.3V
C126	1-126-391-11	s	ELECT 47uF 20% 6.3V
C135	1-126-391-11	s	ELECT 47uF 20% 6.3V
C136	1-163-224-11	s	CERAMIC, CHIP 7PF 0.25PF 50V
C137	1-135-177-21	s	TANTALUM, CHIP 1uF 10% 25V
C138	1-135-259-11	s	TANTALUM, CHIP 10uF 20% 6.3V
C139	1-135-259-11	s	TANTALUM, CHIP 10uF 20% 6.3V
C146	1-126-391-11	s	ELECT 47uF 20% 6.3V
C148	1-135-259-11	s	TANTALUM, CHIP 10uF 20% 6.3V
C150	1-126-391-11	s	ELECT 47uF 20% 6.3V
C151	1-135-259-11	s	TANTALUM, CHIP 10uF 20% 6.3V
C153	1-135-259-11	s	TANTALUM, CHIP 10uF 20% 6.3V
C154	1-163-224-11	s	CERAMIC, CHIP 7PF 0.25PF 50V
C163	1-126-391-11	s	ELECT 47uF 20% 6.3V
C164	1-126-391-11	s	ELECT 47uF 20% 6.3V
C221	1-126-391-11	s	ELECT 47uF 20% 6.3V
C222	1-126-391-11	s	ELECT 47uF 20% 6.3V
C227	1-135-259-11	s	TANTALUM, CHIP 10uF 20% 6.3V
C231	1-135-259-11	s	TANTALUM, CHIP 10uF 20% 6.3V
C232	1-126-391-11	s	ELECT 47uF 20% 6.3V
C233	1-163-224-11	s	CERAMIC, CHIP 7PF 0.25PF 50V
C234	1-135-177-21	s	TANTALUM, CHIP 1uF 10% 25V

(VA-156A/156B/156P BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C235	1-135-259-11	s	TANTALUM, CHIP 10uF 20% 6.3V
C236	1-135-259-11	s	TANTALUM, CHIP 10uF 20% 6.3V
C238	1-163-099-00	s	CERAMIC, CHIP 18PF 5% 50V
C246	1-126-391-11	s	ELECT 47uF 20% 6.3V
C248	1-135-259-11	s	TANTALUM, CHIP 10uF 20% 6.3V
C250	1-126-391-11	s	ELECT 47uF 20% 6.3V
C251	1-135-259-11	s	TANTALUM, CHIP 10uF 20% 6.3V
C253	1-135-259-11	s	TANTALUM, CHIP 10uF 20% 6.3V
C254	1-163-263-11	s	CERAMIC, CHIP 330PF 5% 50V
C256	1-163-249-11	s	CERAMIC, CHIP 82PF 5% 50V
C257	1-163-220-11	s	CERAMIC 3PF 0.25PF 50V
C268	1-126-391-11	s	ELECT 47uF 20% 6.3V
C269	1-126-391-11	s	ELECT 47uF 20% 6.3V
C342	1-163-275-11	s	CERAMIC 0.001uF 5% 50V
C344	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C345	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C346	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C347	1-163-275-11	s	CERAMIC 0.001uF 5% 50V
C349	1-163-275-11	s	CERAMIC 0.001uF 5% 50V
C351	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C352	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C359	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C360	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C362	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C363	1-163-099-00	s	CERAMIC, CHIP 18PF 5% 50V
C369	1-163-251-11	s	CERAMIC, CHIP 100PF 5% 50V
C391	1-163-220-11	s	CERAMIC 3PF 0.25PF 50V
C393	1-126-391-11	s	ELECT 47uF 20% 6.3V
C395	1-126-391-11	s	ELECT 47uF 20% 6.3V
C398	1-135-166-21	s	TANTALUM, CHIP 47uF 10% 10V
C523	1-163-275-11	s	CERAMIC 0.001uF 5% 50V
C524	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C525	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C526	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C527	1-163-275-11	s	CERAMIC 0.001uF 5% 50V
C563	1-126-391-11	s	ELECT 47uF 20% 6.3V
C565	1-126-391-11	s	ELECT 47uF 20% 6.3V
C653	1-163-275-11	s	CERAMIC 0.001uF 5% 50V
C654	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C655	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C656	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C657	1-163-275-11	s	CERAMIC 0.001uF 5% 50V
C693	1-126-391-11	s	ELECT 47uF 20% 6.3V
C694	1-126-391-11	s	ELECT 47uF 20% 6.3V
C761	1-126-391-11	s	ELECT 47uF 20% 6.3V
C764	1-126-391-11	s	ELECT 47uF 20% 6.3V
C782	1-126-391-11	s	ELECT 47uF 20% 6.3V
C784	1-126-391-11	s	ELECT 47uF 20% 6.3V
C841	1-126-391-11	s	ELECT 47uF 20% 6.3V
C842	1-126-391-11	s	ELECT 47uF 20% 6.3V
C898	1-163-220-11	s	CERAMIC 3PF 0.25PF 50V
C899	1-126-391-11	s	ELECT 47uF 20% 6.3V
C901	1-126-391-11	s	ELECT 47uF 20% 6.3V
C931	1-126-391-11	s	ELECT 47uF 20% 6.3V
C933	1-126-391-11	s	ELECT 47uF 20% 6.3V
C950	1-163-092-00	s	CERAMIC, CHIP 9PF 50V
C952	1-126-391-11	s	ELECT 47uF 20% 6.3V
C954	1-126-391-11	s	ELECT 47uF 20% 6.3V
C1011	1-126-391-11	s	ELECT 47uF 20% 6.3V

NOTE : Please see page 1-11 for the parts that are not listed in the parts list.

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(VA-156A/156B/156P BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C1012	1-126-391-11	s	ELECT 47uF 20% 6.3V
C1030	1-163-239-11	s	CERAMIC, CHIP 33PF 5% 50V
C1031	1-163-257-11	s	CERAMIC 180PF 5% 50V [for CCU-700AP(CE)]
C1032	1-163-092-00	s	CERAMIC, CHIP 9PF 50V
C1034	1-126-391-11	s	ELECT 47uF 20% 6.3V
C1036	1-126-391-11	s	ELECT 47uF 20% 6.3V
C1101	1-126-391-11	s	ELECT 47uF 20% 6.3V
C1103	1-163-263-11	s	CERAMIC, CHIP 330PF 5% 50V
C1105	1-126-396-11	s	ELECT, CHIP 47uF 20% 16V
C1106	1-126-396-11	s	ELECT, CHIP 47uF 20% 16V
C1111	1-126-391-11	s	ELECT 47uF 20% 6.3V
C1112	1-126-391-11	s	ELECT 47uF 20% 6.3V
C1258	1-126-391-11	s	ELECT 47uF 20% 6.3V
C1301	1-163-245-11	s	CERAMIC, CHIP 56PF 5% 50V
C1303	1-163-235-11	s	CERAMIC, CHIP 22PF 5% 50V
C1304	1-163-253-11	s	CERAMIC 120PF 5% 50V
C1307	1-163-227-11	s	CERAMIC, CHIP 10PF 5% 50V
C1310	1-126-391-11	s	ELECT 47uF 20% 6.3V
C1312	1-163-243-11	s	CERAMIC, CHIP 47PF 5% 50V
C1313	1-163-253-11	s	CERAMIC 120PF 5% 50V
C1314	1-163-235-11	s	CERAMIC, CHIP 22PF 5% 50V
C1361	1-126-391-11	s	ELECT 47uF 20% 6.3V
C1363	1-163-235-11	s	CERAMIC, CHIP 22PF 5% 50V
C1364	1-135-159-21	s	TANTALUM, CHIP 10uF 10% 20V
C1366	1-135-159-21	s	TANTALUM, CHIP 10uF 10% 20V
C1368	1-126-391-11	s	ELECT 47uF 20% 6.3V
C1369	1-135-161-21	s	TANTALUM, CHIP 22uF 10% 10V
C1370	1-135-159-21	s	TANTALUM, CHIP 10uF 10% 20V
C1371	1-163-243-11	s	CERAMIC, CHIP 47PF 5% 50V
C1372	1-135-259-11	s	TANTALUM, CHIP 10uF 20% 6.3V
C1373	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C1375	1-163-275-11	s	CERAMIC 0.001uF 5% 50V
C1377	1-135-155-21	s	TANTALUM, CHIP 4.7uF 10% 16V
C1378	1-135-155-21	s	TANTALUM, CHIP 4.7uF 10% 16V
C1379	1-135-202-21	s	TANTALUM, CHIP 22uF 20% 4V
C1380	1-135-202-21	s	TANTALUM, CHIP 22uF 20% 4V
C1381	1-135-202-21	s	TANTALUM, CHIP 22uF 20% 4V
C1382	1-135-202-21	s	TANTALUM, CHIP 22uF 20% 4V
C1383	1-126-396-11	s	ELECT, CHIP 47uF 20% 16V
C1385	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V [for CCU-700AP(CE)]
C1388	1-163-253-11	s	CERAMIC 120PF 5% 50V
C1389	1-163-235-11	s	CERAMIC, CHIP 22PF 5% 50V
C1390	1-135-159-21	s	TANTALUM, CHIP 10uF 10% 20V
C1393	1-126-391-11	s	ELECT 47uF 20% 6.3V
C1397	1-163-245-11	s	CERAMIC, CHIP 56PF 5% 50V [for CCU-700A(J), CCU-700A(UC)]
C1397	1-163-249-11	s	CERAMIC, CHIP 82PF 5% 50V [for CCU-700AP(CE)]
C1500	1-163-224-11	s	CERAMIC, CHIP 7PF 0.25PF 50V
C1501	1-126-391-11	s	ELECT 47uF 20% 6.3V
C1502	1-126-391-11	s	ELECT 47uF 20% 6.3V
C1505	1-163-275-11	s	CERAMIC 0.001uF 5% 50V
C1516	1-126-391-11	s	ELECT 47uF 20% 6.3V
C1519	1-126-391-11	s	ELECT 47uF 20% 6.3V
C1522	1-126-391-11	s	ELECT 47uF 20% 6.3V
C1523	1-126-391-11	s	ELECT 47uF 20% 6.3V

NOTE : Please see page 1-11 for the parts that are not listed in the parts list.

(VA-156A/156B/156P BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C1524	1-163-231-11	s	CERAMIC, CHIP 15PF 5% 50V [for CCU-700A(J), CCU-700A(UC)]
C1524	1-163-227-11	s	CERAMIC, CHIP 10PF 5% 50V [for CCU-700AP(CE)]
C1598	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C1599	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C1600	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C1602	1-163-239-11	s	CERAMIC, CHIP 33PF 5% 50V
C1603	1-163-257-11	s	CERAMIC 180PF 5% 50V [for CCU-700AP(CE)]
C1606	1-163-222-11	s	CERAMIC 5PF 0.25PF 50V
C1608	1-163-217-11	s	CERAMIC 1PF 0.25PF 50V
C1610	1-163-222-11	s	CERAMIC 5PF 0.25PF 50V
C1612	1-126-391-11	s	ELECT 47uF 20% 6.3V
C1614	1-126-391-11	s	ELECT 47uF 20% 6.3V
C1616	1-163-222-11	s	CERAMIC 5PF 0.25PF 50V
C1622	1-163-222-11	s	CERAMIC 5PF 0.25PF 50V
C1702	1-126-391-11	s	ELECT 47uF 20% 6.3V
C1703	1-126-391-11	s	ELECT 47uF 20% 6.3V
C1704	1-126-391-11	s	ELECT 47uF 20% 6.3V
C1706	1-163-275-11	s	CERAMIC 0.001uF 5% 50V
C1707	1-163-037-11	s	CERAMIC, CHIP 0.022uF 10% 25V
C1708	1-126-391-11	s	ELECT 47uF 20% 6.3V
C1709	1-135-145-11	s	TANTALUM, CHIP 0.47uF 10% 35V
C1710	1-163-227-11	s	CERAMIC, CHIP 10PF 5% 50V
C1713	1-163-249-11	s	CERAMIC, CHIP 82PF 5% 50V
C1714	1-135-070-00	s	TANTALUM, CHIP 0.1uF 10% 35V
C1715	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C1716	1-126-391-11	s	ELECT 47uF 20% 6.3V
C1717	1-126-391-11	s	ELECT 47uF 20% 6.3V
C1720	1-163-243-11	s	CERAMIC, CHIP 47PF 5% 50V [for CCU-700AP(CE)]
C1783	1-126-391-11	s	ELECT 47uF 20% 6.3V
C1784	1-126-391-11	s	ELECT 47uF 20% 6.3V
C1785	1-126-391-11	s	ELECT 47uF 20% 6.3V
C1788	1-163-253-11	s	CERAMIC 120PF 5% 50V
C1789	1-163-251-11	s	CERAMIC, CHIP 100PF 5% 50V
C1790	1-163-245-11	s	CERAMIC, CHIP 56PF 5% 50V
C1792	1-163-239-11	s	CERAMIC, CHIP 33PF 5% 50V
C1793	1-126-391-11	s	ELECT 47uF 20% 6.3V
C1795	1-126-391-11	s	ELECT 47uF 20% 6.3V
C1797	1-163-257-11	s	CERAMIC 180PF 5% 50V
C1798	1-163-127-00	s	CERAMIC, CHIP 270PF 5% 50V
C1801	1-163-251-11	s	CERAMIC, CHIP 100PF 5% 50V
C1802	1-163-235-11	s	CERAMIC, CHIP 22PF 5% 50V
C1803	1-163-135-00	s	CERAMIC, CHIP 560PF 5% 50V
C1804	1-163-275-11	s	CERAMIC 0.001uF 5% 50V [for CCU-700AP(CE)]
C1805	1-163-275-11	s	CERAMIC 0.001uF 5% 50V
C1806	1-163-275-11	s	CERAMIC 0.001uF 5% 50V
C1808	1-164-161-11	s	CERAMIC, CHIP 0.0022uF 10% 100V
C1809	1-126-391-11	s	ELECT 47uF 20% 6.3V
C1811	1-163-251-11	s	CERAMIC, CHIP 100PF 5% 50V
C1813	1-163-099-00	s	CERAMIC, CHIP 18PF 5% 50V [for CCU-700A(J), CCU-700A(UC)]
C1813	1-163-239-11	s	CERAMIC, CHIP 33PF 5% 50V [for CCU-700AP(CE)]

(VA-156A/156B/156P BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C1814	1-163-253-11	s	CERAMIC 120PF 5% 50V [for CCU-700A(J), CCU-700A(UC)]
C1814	1-163-127-00	s	CERAMIC, CHIP 270PF 5% 50V [for CCU-700AP(CE)]
C1815	1-163-241-11	s	CERAMIC, CHIP 39PF 5% 50V
C1820	1-163-251-11	s	CERAMIC, CHIP 100PF 5% 50V
C1821	1-163-243-11	s	CERAMIC, CHIP 47PF 5% 50V
C1822	1-163-251-11	s	CERAMIC, CHIP 100PF 5% 50V
C1890	1-135-076-21	s	TANTALUM, CHIP 1uF 10% 35V
C1892	1-135-125-21	s	TANTAL 33uF 20% 10V
C1893	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C1894	1-135-145-11	s	TANTALUM, CHIP 0.47uF 10% 35V
C1895	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C1896	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C1897	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C1898	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C1899	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C1900	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C1901	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C1902	1-163-275-11	s	CERAMIC 0.001uF 5% 50V
C1903	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C1904	1-126-391-11	s	ELECT 47uF 20% 6.3V
C1905	1-135-145-11	s	TANTALUM, CHIP 0.47uF 10% 35V
C1906	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C1908	1-126-391-11	s	ELECT 47uF 20% 6.3V
C1909	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C1910	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C1913	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C1916	1-135-076-21	s	TANTALUM, CHIP 1uF 10% 35V
C1917	1-126-396-11	s	ELECT, CHIP 47uF 20% 16V
C1961	1-126-391-11	s	ELECT 47uF 20% 6.3V
C1964	1-126-391-11	s	ELECT 47uF 20% 6.3V
C1966	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C1967	1-163-251-11	s	CERAMIC, CHIP 100PF 5% 50V
C1968	1-163-251-11	s	CERAMIC, CHIP 100PF 5% 50V
C1971	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C1972	1-163-235-11	s	CERAMIC, CHIP 22PF 5% 50V
C1973	1-126-391-11	s	ELECT 47uF 20% 6.3V
C1975	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C1976	1-163-243-11	s	CERAMIC, CHIP 47PF 5% 50V
C1977	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C2032	1-126-391-11	s	ELECT 47uF 20% 6.3V
C2034	1-126-391-11	s	ELECT 47uF 20% 6.3V
C2039	1-126-391-11	s	ELECT 47uF 20% 6.3V
C2040	1-126-391-11	s	ELECT 47uF 20% 6.3V
C2046	1-135-161-21	s	TANTALUM, CHIP 22uF 10% 10V
C2048	1-135-161-21	s	TANTALUM, CHIP 22uF 10% 10V
C2049	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C2050	1-135-161-21	s	TANTALUM, CHIP 22uF 10% 10V
C2051	1-163-220-11	s	CERAMIC 3PF 0.25PF 50V [for CCU-700AP(CE)]
C2052	1-163-245-11	s	CERAMIC, CHIP 56PF 5% 50V
C2053	1-135-076-21	s	TANTALUM, CHIP 1uF 10% 35V
C2201	1-126-391-11	s	ELECT 47uF 20% 6.3V
C2202	1-126-391-11	s	ELECT 47uF 20% 6.3V
C2205	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C2206	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V

(VA-156A/156B/156P BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C2212	1-163-239-11	s	CERAMIC, CHIP 33PF 5% 50V [for CCU-700A(J), CCU-700A(UC)]
C2331	1-126-391-11	s	ELECT 47uF 20% 6.3V
C2332	1-126-391-11	s	ELECT 47uF 20% 6.3V
C2333	1-126-391-11	s	ELECT 47uF 20% 6.3V
C2334	1-126-391-11	s	ELECT 47uF 20% 6.3V
C2337	1-126-396-11	s	ELECT, CHIP 47uF 20% 16V
C2338	1-126-391-11	s	ELECT 47uF 20% 6.3V
C2340	1-126-396-11	s	ELECT, CHIP 47uF 20% 16V
C2342	1-126-391-11	s	ELECT 47uF 20% 6.3V
C2344	1-126-391-11	s	ELECT 47uF 20% 6.3V
C2345	1-163-251-11	s	CERAMIC, CHIP 100PF 5% 50V
CN1	1-774-668-11	o	CONNECTOR, BOARD TO BOARD 96P
CN2	1-774-668-11	o	CONNECTOR, BOARD TO BOARD 96P
CN3	1-562-783-11	o	CONNECTOR 18P
CP1891	1-567-084-00	s	OSCILLATOR, CRYSTAL 14.31818MHz [for CCU-700A(J), CCU-700A(UC)]
CP1891	1-567-654-11	s	OSCILLATOR, CRYSTAL 17.734475MHz [for CCU-700AP(CE)]
CP1892	1-760-267-11	s	VCO, CRYSTAL 14.3818MHz [for CCU-700A(J), CCU-700A(UC)]
CP1892	1-760-266-11	s	VCO, CRYSTAL 14.18750MHz [for CCU-700AP(CE)]
CV1501	1-141-311-11	s	CAP, VAR, TRIMMER [for CCU-700A(J), CCU-700A(UC)]
CV1501	1-141-373-11	s	CAP, CHIP TRIMMER [for CCU-700AP(CE)]
CV1602	1-141-311-11	s	CAP, VAR, TRIMMER
CV1603	1-141-311-11	s	CAP, VAR, TRIMMER
D1	8-719-801-78	s	DIODE 1SS184
D2	8-719-104-34	s	DIODE 1S2836
D3	8-719-104-34	s	DIODE 1S2836
D126	8-719-104-34	s	DIODE 1S2836
D127	8-719-104-34	s	DIODE 1S2836
D221	8-719-104-34	s	DIODE 1S2836
D341	8-719-801-78	s	DIODE 1SS184
D342	8-719-801-78	s	DIODE 1SS184
D343	8-719-801-78	s	DIODE 1SS184
D344	8-719-801-78	s	DIODE 1SS184
D521	8-719-801-78	s	DIODE 1SS184
D522	8-719-801-78	s	DIODE 1SS184
D651	8-719-104-34	s	DIODE 1S2836
D931	8-719-105-32	s	DIODE RD2.7M-B2
D932	8-719-105-32	s	DIODE RD2.7M-B2
D933	8-719-105-32	s	DIODE RD2.7M-B2
D935	8-719-105-32	s	DIODE RD2.7M-B2
D1011	8-719-105-32	s	DIODE RD2.7M-B2
D1012	8-719-105-32	s	DIODE RD2.7M-B2
D1013	8-719-105-32	s	DIODE RD2.7M-B2
D1015	8-719-105-32	s	DIODE RD2.7M-B2
D1101	8-719-104-34	s	DIODE 1S2836
D1102	8-719-104-34	s	DIODE 1S2836
D1103	8-719-801-78	s	DIODE 1SS184
D1104	8-719-800-76	s	DIODE 1SS226

NOTE : Please see page 1-11 for the parts that are not listed in the parts list.

Ref. No. or Q'ty	Part No.	SP	Description
D1301	8-719-801-78	s	DIODE 1SS184
D1302	8-719-801-78	s	DIODE 1SS184
D1304	8-719-104-34	s	DIODE 1S2836 [for CCU-700A(UC)]
D1361	8-719-002-81	s	DIODE 1T363
D1362	8-719-002-81	s	DIODE 1T363
D1501	8-713-100-38	s	DIODE 1T363A-04-T8A [for CCU-700AP(CE)]
D1502	8-719-801-78	s	DIODE 1SS184 [for CCU-700AP(CE)]
D1503	8-713-100-38	s	DIODE 1T363A-04-T8A [for CCU-700AP(CE)]
D1701	8-719-105-51	s	DIODE RD3.6M-B1
D1702	8-719-104-34	s	DIODE 1S2836
D1703	8-719-104-34	s	DIODE 1S2836
D1781	8-719-800-76	s	DIODE 1SS226
D1782	8-719-801-78	s	DIODE 1SS184
D1783	8-719-801-78	s	DIODE 1SS184
D1784	8-719-104-34	s	DIODE 1S2836
D1785	8-719-801-78	s	DIODE 1SS184
D1790	8-719-104-34	s	DIODE 1S2836
D1891	8-719-974-41	s	DIODE HLMP-6500-010
D2027	8-719-800-76	s	DIODE 1SS226
D2028	8-719-104-34	s	DIODE 1S2836
D2030	8-719-801-78	s	DIODE 1SS184
D2031	8-719-801-78	s	DIODE 1SS184
D2032	8-719-104-34	s	DIODE 1S2836
D2033	8-719-104-34	s	DIODE 1S2836
D2202	8-719-801-78	s	DIODE 1SS184
D2203	8-719-800-76	s	DIODE 1SS226
D2204	8-719-801-78	s	DIODE 1SS184
D2331	8-719-974-41	s	DIODE HLMP-6500-010
D2332	8-719-974-41	s	DIODE HLMP-6500-010
D2333	8-719-974-41	s	DIODE HLMP-6500-010
D2334	8-719-974-41	s	DIODE HLMP-6500-010
D2335	8-719-157-23	s	DIODE RD4.7M-B
D2336	8-719-157-23	s	DIODE RD4.7M-B
D2337	8-759-274-67	s	IC LM4040BIM3X-5.0
DL1501	1-415-710-11	s	DELAY LINE, Y (NTSC) [for CCU-700A(J), CCU-700A(UC)]
DL1501	1-415-711-11	s	DELAY LINE, Y (PAL) [for CCU-700AP(CE)]
E1	3-673-772-01	s	TERMINAL, TP
E2	3-673-772-01	s	TERMINAL, TP
E3	3-673-772-01	s	TERMINAL, TP
E4	3-673-772-01	s	TERMINAL, TP
E5	3-673-772-01	s	TERMINAL, TP
E6	3-673-772-01	s	TERMINAL, TP
E7	3-673-772-01	s	TERMINAL, TP
E8	3-673-772-01	s	TERMINAL, TP
E9	3-673-772-01	s	TERMINAL, TP
E10	3-673-772-01	s	TERMINAL, TP
F2331 ⚠	1-576-225-41	s	FUSE (H.B.C.)
F2332 ⚠	1-576-225-41	s	FUSE (H.B.C.)
FL1361	1-415-811-11	s	DELAY LINE (VISUAL SIGNAL) [for CCU-700A(J), CCU-700A(UC)]
FL1362	1-236-624-11	s	FILTER, LOW PASS (U/V) [for CCU-700AP(CE)]
FL1363	1-236-622-12	s	FILTER, LOW PASS (Q) [for CCU-700A(J), CCU-700A(UC)]
FL1363	1-236-624-11	s	FILTER, LOW PASS (U/V) [for CCU-700AP(CE)]
FL1364	1-235-161-00	s	FILTER, BAND PASS [for CCU-700A(J), CCU-700A(UC)]
FL1364	1-235-181-00	s	FILTER, BAND PASS [for CCU-700AP(CE)]
FL1961	1-235-572-11	s	FILTER, LOW PASS
IC1	8-759-011-65	s	IC MC74HC4053F
IC2	8-759-030-55	s	IC MC1496M
IC3	8-759-011-65	s	IC MC74HC4053F
IC4	8-759-906-53	s	IC TL062CPS
IC5	8-759-031-84	s	IC SC7S04F
IC6	8-759-635-27	s	IC M62352GP
IC7	8-759-238-51	s	IC TC74HC4051AF(EL)
IC8	8-759-035-93	s	IC TC7S32F
IC9	8-759-035-93	s	IC TC7S32F
IC10	8-759-906-53	s	IC TL062CPS
IC20	8-759-054-61	s	IC CLC505AJE
IC125	8-759-011-65	s	IC MC74HC4053F
IC126	8-759-011-65	s	IC MC74HC4053F
IC127	8-759-906-54	s	IC TL064CNS
IC128	8-759-030-55	s	IC MC1496M
IC135	8-759-906-53	s	IC TL062CPS
IC145	8-759-054-61	s	IC CLC505AJE
IC221	8-759-011-65	s	IC MC74HC4053F
IC222	8-759-011-65	s	IC MC74HC4053F
IC223	8-759-906-54	s	IC TL064CNS
IC224	8-759-030-55	s	IC MC1496M
IC230	8-759-906-53	s	IC TL062CPS
IC240	8-759-054-61	s	IC CLC505AJE
IC341	8-759-011-65	s	IC MC74HC4053F
IC342	8-759-030-49	s	IC MC1495M
IC343	8-759-906-53	s	IC TL062CPS
IC344	8-759-054-61	s	IC CLC505AJE
IC345	8-759-242-64	s	IC TC4W53F
IC346	8-759-030-49	s	IC MC1495M
IC347	8-759-242-64	s	IC TC4W53F
IC365	8-759-054-61	s	IC CLC505AJE
IC521	8-759-011-65	s	IC MC74HC4053F
IC522	8-759-030-49	s	IC MC1495M
IC523	8-759-242-64	s	IC TC4W53F
IC540	8-759-054-61	s	IC CLC505AJE
IC651	8-759-011-65	s	IC MC74HC4053F
IC652	8-759-030-49	s	IC MC1495M
IC653	8-759-242-64	s	IC TC4W53F
IC670	8-759-054-61	s	IC CLC505AJE
IC761	8-759-054-61	s	IC CLC505AJE
IC762	8-759-238-51	s	IC TC74HC4051AF(EL)
IC860	8-759-054-61	s	IC CLC505AJE
IC950	8-759-054-61	s	IC CLC505AJE
IC951	8-759-242-64	s	IC TC4W53F
IC952	8-759-242-64	s	IC TC4W53F

NOTE : Please see page 1-11 for the parts that are not listed in the parts list.

(VA-156A/156B/156P BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
IC1030	8-759-011-65	s	IC MC74HC4053F
IC1031	8-759-054-61	s	IC CLC505AJE
IC1101	8-759-009-82	s	IC MC14011BF-T2
IC1102	8-759-160-19	s	IC CXD8826Q
IC1103	8-759-009-82	s	IC MC14011BF-T2
IC1104	8-759-160-19	s	IC CXD8826Q
IC1105	8-759-745-64	s	IC NJM4560M
IC1301	8-759-239-58	s	IC TC74HC221AF
IC1302	8-759-927-46	s	IC SN74HC00ANS
IC1303	8-759-234-20	s	IC TC7S08F
IC1361	8-759-030-55	s	IC MC1496M
IC1362	8-759-168-19	s	IC TA78L09F-T1
IC1363	8-759-906-59	s	IC CX22017
IC1501	8-759-030-55	s	IC MC1496M
IC1502	8-759-242-64	s	IC TC4W53F [for CCU-700AP(CE)]
IC1503	8-759-054-61	s	IC CLC505AJE
IC1504	8-759-242-64	s	IC TC4W53F [for CCU-700AP(CE)]
IC1601	8-759-054-61	s	IC CLC505AJE
IC1602	8-759-054-61	s	IC CLC505AJE
IC1603	8-759-054-61	s	IC CLC505AJE
IC1604	8-759-054-61	s	IC CLC505AJE
IC1605	8-759-054-61	s	IC CLC505AJE
IC1606	8-759-238-51	s	IC TC74HC4051AF(EL)
IC1607	8-759-635-27	s	IC M62352GP
IC1701	8-759-101-12	s	IC UPC311G2
IC1781	8-759-907-81	s	IC SN74LS221NS
IC1782	8-759-906-53	s	IC TL062CPS
IC1783	8-759-925-74	s	IC SN74HC04ANS-E20
IC1784	8-759-239-58	s	IC TC74HC221AF
IC1785	8-759-927-46	s	IC SN74HC00ANS
IC1786	8-759-927-46	s	IC SN74HC00ANS
IC1787	8-759-927-46	s	IC SN74HC00ANS
IC1788	8-759-239-58	s	IC TC74HC221AF
IC1789	8-759-239-58	s	IC TC74HC221AF
IC1790	8-759-009-46	s	IC MC14528BF
IC1791	8-759-925-74	s	IC SN74HC04ANS-E20
IC1792	8-759-082-57	s	IC TC7W04FU
IC1795	8-759-925-74	s	IC SN74HC04ANS-E20
IC1796	8-759-927-46	s	IC SN74HC00ANS
IC1891	8-752-335-47	s	IC CXD1216M
IC1892	8-759-300-71	s	IC MC14053BF
IC1893	8-759-970-59	s	IC TLC272CPS
IC1894	8-752-335-47	s	IC CXD1216M
IC1895	8-759-926-19	s	IC SN74HC158ANS
IC1896	8-759-239-58	s	IC TC74HC221AF
IC1897	8-752-332-67	s	IC CXD1217M
IC1898	8-759-907-21	s	IC CX7969
IC1900	8-759-062-66	s	IC TC7S66F
IC1960	8-759-635-27	s	IC M62352GP
IC1961	8-759-300-71	s	IC MC14053BF
IC1962	8-759-300-71	s	IC MC14053BF
IC1963	8-759-007-80	s	IC MC74HC175F
IC1964	8-759-926-17	s	IC SN74HC153ANS
IC1965	8-759-902-88	s	IC SN74LS123NS
IC1966	8-759-906-54	s	IC TL064CNS
IC2031	8-759-009-82	s	IC MC14011BF-T2
IC2032	8-759-008-98	s	IC MC14040BF
IC2033	8-759-911-77	s	IC CX7968A
IC2034	8-759-908-92	s	IC TL084CNS

(VA-156A/156B/156P BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
IC2035	8-759-925-76	s	IC SN74HC08ANS
IC2036	8-759-925-76	s	IC SN74HC08ANS
IC2037	8-759-908-92	s	IC TL084CNS
IC2038	8-759-054-61	s	IC CLC505AJE
IC2201	8-759-054-61	s	IC CLC505AJE
IC2202	8-759-054-61	s	IC CLC505AJE
IC2204	8-759-981-48	s	IC TL082M
IC2205	8-759-062-66	s	IC TC7S66F
IC2206	8-759-236-51	s	IC TC74HC165AF(EL)
IC2207	8-759-009-04	s	IC MC14050BF
IC2208	8-759-147-84	s	IC CXD8072Q
IC2209	8-759-054-61	s	IC CLC505AJE
IC2210	8-759-242-64	s	IC TC4W53F
IC2211	8-759-925-76	s	IC SN74HC08ANS
IC2331	8-759-906-53	s	IC TL062CPS
L1	1-412-030-11	s	INDUCTOR CHIP 22uH
L2	1-412-030-11	s	INDUCTOR CHIP 22uH
L10	1-412-030-11	s	INDUCTOR CHIP 22uH
L11	1-412-030-11	s	INDUCTOR CHIP 22uH
L20	1-412-030-11	s	INDUCTOR CHIP 22uH
L21	1-412-030-11	s	INDUCTOR CHIP 22uH
L125	1-412-030-11	s	INDUCTOR CHIP 22uH
L126	1-412-030-11	s	INDUCTOR CHIP 22uH
L127	1-408-781-00	s	INDUCTOR CHIP 22uH
L135	1-412-030-11	s	INDUCTOR CHIP 22uH
L136	1-412-030-11	s	INDUCTOR CHIP 22uH
L221	1-412-030-11	s	INDUCTOR CHIP 22uH
L222	1-412-030-11	s	INDUCTOR CHIP 22uH
L223	1-408-781-00	s	INDUCTOR CHIP 22uH
L224	1-408-794-00	s	INDUCTOR CHIP 270uH
L230	1-412-030-11	s	INDUCTOR CHIP 22uH
L231	1-412-030-11	s	INDUCTOR CHIP 22uH
L341	1-412-030-11	s	INDUCTOR CHIP 22uH
L342	1-412-030-11	s	INDUCTOR CHIP 22uH
L350	1-412-030-11	s	INDUCTOR CHIP 22uH
L351	1-412-030-11	s	INDUCTOR CHIP 22uH
L521	1-412-030-11	s	INDUCTOR CHIP 22uH
L522	1-412-030-11	s	INDUCTOR CHIP 22uH
L530	1-412-030-11	s	INDUCTOR CHIP 22uH
L531	1-412-030-11	s	INDUCTOR CHIP 22uH
L651	1-412-030-11	s	INDUCTOR CHIP 22uH
L652	1-412-030-11	s	INDUCTOR CHIP 22uH
L660	1-412-030-11	s	INDUCTOR CHIP 22uH
L661	1-412-030-11	s	INDUCTOR CHIP 22uH
L761	1-412-030-11	s	INDUCTOR CHIP 22uH
L762	1-412-030-11	s	INDUCTOR CHIP 22uH
L770	1-412-030-11	s	INDUCTOR CHIP 22uH
L771	1-412-030-11	s	INDUCTOR CHIP 22uH
L841	1-412-030-11	s	INDUCTOR CHIP 22uH
L842	1-412-030-11	s	INDUCTOR CHIP 22uH
L850	1-412-030-11	s	INDUCTOR CHIP 22uH
L851	1-412-030-11	s	INDUCTOR CHIP 22uH
L931	1-412-030-11	s	INDUCTOR CHIP 22uH
L932	1-412-030-11	s	INDUCTOR CHIP 22uH
L940	1-412-030-11	s	INDUCTOR CHIP 22uH
L941	1-412-030-11	s	INDUCTOR CHIP 22uH
L1011	1-412-030-11	s	INDUCTOR CHIP 22uH
L1012	1-412-030-11	s	INDUCTOR CHIP 22uH
L1020	1-412-030-11	s	INDUCTOR CHIP 22uH

NOTE : Please see page 1-11 for the parts that are not listed in the parts list.

(VA-156A/156B/156P BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
L1021	1-412-030-11	s	INDUCTOR CHIP 22uH
L1101	1-412-030-11	s	INDUCTOR CHIP 22uH
L1102	1-412-030-11	s	INDUCTOR CHIP 22uH
L1301	1-412-030-11	s	INDUCTOR CHIP 22uH
L1302	1-412-030-11	s	INDUCTOR CHIP 22uH
L1303	1-408-794-00	s	INDUCTOR CHIP 270uH
L1361	1-412-030-11	s	INDUCTOR CHIP 22uH
L1362	1-412-030-11	s	INDUCTOR CHIP 22uH
L1363	1-412-030-11	s	INDUCTOR CHIP 22uH
L1364	1-412-030-11	s	INDUCTOR CHIP 22uH
L1365	1-408-794-00	s	INDUCTOR CHIP 270uH
L1501	1-412-030-11	s	INDUCTOR CHIP 22uH
L1502	1-412-030-11	s	INDUCTOR CHIP 22uH
L1503	1-408-779-31	s	INDUCTOR CHIP 15uH [for CCU-700AP(CE)]
L1504	1-412-030-11	s	INDUCTOR CHIP 22uH
L1505	1-412-030-11	s	INDUCTOR CHIP 22uH
L1506	1-412-030-11	s	INDUCTOR CHIP 22uH
L1507	1-412-030-11	s	INDUCTOR CHIP 22uH
L1601	1-412-030-11	s	INDUCTOR CHIP 22uH
L1602	1-412-030-11	s	INDUCTOR CHIP 22uH
L1603	1-412-030-11	s	INDUCTOR CHIP 22uH
L1604	1-412-030-11	s	INDUCTOR CHIP 22uH
L1701	1-412-030-11	s	INDUCTOR CHIP 22uH
L1702	1-412-030-11	s	INDUCTOR CHIP 22uH
L1703	1-408-791-00	s	INDUCTOR CHIP 150uH
L1704	1-408-781-00	s	INDUCTOR CHIP 22uH
L1781	1-412-030-11	s	INDUCTOR CHIP 22uH
L1782	1-412-030-11	s	INDUCTOR CHIP 22uH
L1783	1-412-030-11	s	INDUCTOR CHIP 22uH
L1784	1-408-791-00	s	INDUCTOR CHIP 150uH
L1785	1-408-794-00	s	INDUCTOR CHIP 270uH [for CCU-700A(J), CCU-700A(UC)]
L1785	1-408-797-11	s	INDUCTOR CHIP 470uH [for CCU-700AP(CE)]
L1891	1-412-030-11	s	INDUCTOR CHIP 22uH
L1892	1-412-030-11	s	INDUCTOR CHIP 22uH
L1893	1-412-030-11	s	INDUCTOR CHIP 22uH
L1894	1-412-030-11	s	INDUCTOR CHIP 22uH
L1895	1-412-030-11	s	INDUCTOR CHIP 22uH
L1961	1-412-030-11	s	INDUCTOR CHIP 22uH
L1962	1-412-030-11	s	INDUCTOR CHIP 22uH
L1963	1-412-030-11	s	INDUCTOR CHIP 22uH
L1964	1-412-030-11	s	INDUCTOR CHIP 22uH
L2031	1-412-030-11	s	INDUCTOR CHIP 22uH
L2032	1-412-030-11	s	INDUCTOR CHIP 22uH
L2033	1-412-030-11	s	INDUCTOR CHIP 22uH
L2034	1-408-781-00	s	INDUCTOR CHIP 22uH
L2201	1-412-030-11	s	INDUCTOR CHIP 22uH
L2202	1-412-030-11	s	INDUCTOR CHIP 22uH
L2203	1-408-797-11	s	INDUCTOR CHIP 470uH [for CCU-700A(J), CCU-700A(UC)]
L2331	1-414-529-21	s	INDUCTOR(POWER) 100uH
L2332	1-414-529-21	s	INDUCTOR(POWER) 100uH
LV1011	1-408-844-00	s	INDUCTOR, VAR, 22uH [for CCU-700A(J), CCU-700A(UC)]

(VA-156A/156B/156P BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
LV1011	1-408-845-00	s	VARIABLE INDUCTOR 100uH [for CCU-700AP(CE)]
LV1361	1-408-844-00	s	INDUCTOR, VAR, 22uH
LV1601	1-408-844-00	s	INDUCTOR, VAR, 22uH [for CCU-700A(J), CCU-700A(UC)]
LV1601	1-408-845-00	s	VARIABLE INDUCTOR 100uH [for CCU-700AP(CE)]
Q1	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q3	8-729-101-25	s	TRANSISTOR 2SC1009A-FA4
Q4	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q6	8-729-122-63	s	TRANSISTOR 2SA1226
Q7	8-729-122-63	s	TRANSISTOR 2SA1226
Q8	8-729-216-22	s	TRANSISTOR 2SA1162
Q9	8-729-216-22	s	TRANSISTOR 2SA1162
Q10	8-729-175-73	s	TRANSISTOR 2SC2757
Q11	8-729-216-22	s	TRANSISTOR 2SA1162
Q12	8-729-216-22	s	TRANSISTOR 2SA1162
Q13	8-729-175-73	s	TRANSISTOR 2SC2757
Q14	8-729-216-22	s	TRANSISTOR 2SA1162
Q16	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q20	8-729-101-25	s	TRANSISTOR 2SC1009A-FA4
Q21	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q22	8-729-101-25	s	TRANSISTOR 2SC1009A-FA4
Q23	8-729-216-22	s	TRANSISTOR 2SA1162
Q24	8-729-216-22	s	TRANSISTOR 2SA1162
Q25	8-729-421-71	s	TRANSISTOR 2SK620
Q30	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q125	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q126	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q128	8-729-101-25	s	TRANSISTOR 2SC1009A-FA4
Q129	8-729-216-22	s	TRANSISTOR 2SA1162
Q130	8-729-101-25	s	TRANSISTOR 2SC1009A-FA4
Q131	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q132	8-729-122-63	s	TRANSISTOR 2SA1226
Q135	8-729-101-25	s	TRANSISTOR 2SC1009A-FA4
Q136	8-729-101-25	s	TRANSISTOR 2SC1009A-FA4
Q137	8-729-216-22	s	TRANSISTOR 2SA1162
Q138	8-729-216-22	s	TRANSISTOR 2SA1162
Q139	8-729-421-71	s	TRANSISTOR 2SK620
Q145	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q222	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q225	8-729-101-25	s	TRANSISTOR 2SC1009A-FA4
Q226	8-729-216-22	s	TRANSISTOR 2SA1162
Q227	8-729-101-25	s	TRANSISTOR 2SC1009A-FA4
Q228	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q229	8-729-122-63	s	TRANSISTOR 2SA1226
Q230	8-729-216-22	s	TRANSISTOR 2SA1162
Q231	8-729-403-29	s	TRANSISTOR XN6435
Q232	8-729-403-32	s	TRANSISTOR XN6534
Q240	8-729-101-25	s	TRANSISTOR 2SC1009A-FA4
Q241	8-729-101-25	s	TRANSISTOR 2SC1009A-FA4
Q242	8-729-216-22	s	TRANSISTOR 2SA1162
Q243	8-729-216-22	s	TRANSISTOR 2SA1162
Q244	8-729-421-71	s	TRANSISTOR 2SK620
Q245	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q246	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q250	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6

NOTE : Please see page 1-11 for the parts that are not listed in the parts list.

(VA-156A/156B/156P BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
Q341	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q342	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q343	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q344	8-729-216-22	s	TRANSISTOR 2SA1162
Q345	8-729-216-22	s	TRANSISTOR 2SA1162
Q346	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q347	8-729-216-22	s	TRANSISTOR 2SA1162
Q348	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q350	8-729-216-22	s	TRANSISTOR 2SA1162
Q351	8-729-216-22	s	TRANSISTOR 2SA1162
Q352	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q353	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q354	8-729-109-44	s	TRANSISTOR 2SK94
Q355	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q356	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q357	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q358	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q359	8-729-122-63	s	TRANSISTOR 2SA1226
Q360	8-729-122-63	s	TRANSISTOR 2SA1226
Q361	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q362	8-729-122-63	s	TRANSISTOR 2SA1226
Q363	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q364	8-729-101-25	s	TRANSISTOR 2SC1009A-FA4
Q365	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q366	8-729-122-63	s	TRANSISTOR 2SA1226
Q367	8-729-216-22	s	TRANSISTOR 2SA1162
Q368	8-729-122-63	s	TRANSISTOR 2SA1226
Q385	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q386	8-729-216-22	s	TRANSISTOR 2SA1162
Q387	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q521	8-729-122-63	s	TRANSISTOR 2SA1226
Q522	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q523	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q524	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q525	8-729-216-22	s	TRANSISTOR 2SA1162
Q526	8-729-122-63	s	TRANSISTOR 2SA1226
Q527	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q528	8-729-101-25	s	TRANSISTOR 2SC1009A-FA4
Q529	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q530	8-729-122-63	s	TRANSISTOR 2SA1226
Q532	8-729-216-22	s	TRANSISTOR 2SA1162
Q550	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q551	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q552	8-729-216-22	s	TRANSISTOR 2SA1162
Q651	8-729-122-63	s	TRANSISTOR 2SA1226
Q652	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q653	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q654	8-729-216-22	s	TRANSISTOR 2SA1162
Q655	8-729-122-63	s	TRANSISTOR 2SA1226
Q656	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q657	8-729-101-25	s	TRANSISTOR 2SC1009A-FA4
Q658	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q659	8-729-122-63	s	TRANSISTOR 2SA1226
Q661	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q662	8-729-216-22	s	TRANSISTOR 2SA1162
Q680	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q681	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q682	8-729-216-22	s	TRANSISTOR 2SA1162
Q763	8-729-216-22	s	TRANSISTOR 2SA1162

(VA-156A/156B/156P BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
Q764	8-729-216-22	s	TRANSISTOR 2SA1162
Q765	8-729-216-22	s	TRANSISTOR 2SA1162
Q766	8-729-216-22	s	TRANSISTOR 2SA1162
Q767	8-729-216-22	s	TRANSISTOR 2SA1162
Q768	8-729-216-22	s	TRANSISTOR 2SA1162
Q769	8-729-216-22	s	TRANSISTOR 2SA1162
Q770	8-729-216-22	s	TRANSISTOR 2SA1162
Q772	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q773	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q774	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q775	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q780	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q781	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q841	8-729-216-22	s	TRANSISTOR 2SA1162
Q843	8-729-216-22	s	TRANSISTOR 2SA1162
Q845	8-729-216-22	s	TRANSISTOR 2SA1162
Q849	8-729-216-22	s	TRANSISTOR 2SA1162
Q853	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q855	8-729-216-22	s	TRANSISTOR 2SA1162
Q856	8-729-216-22	s	TRANSISTOR 2SA1162
Q857	8-729-216-22	s	TRANSISTOR 2SA1162
Q859	8-729-216-22	s	TRANSISTOR 2SA1162
Q862	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q863	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q864	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q868	8-729-216-22	s	TRANSISTOR 2SA1162
Q869	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q870	8-729-216-22	s	TRANSISTOR 2SA1162
Q871	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q872	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q873	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q931	8-729-216-22	s	TRANSISTOR 2SA1162
Q932	8-729-821-88	s	TRANSISTOR 2SK1332-3
Q933	8-729-216-22	s	TRANSISTOR 2SA1162
Q934	8-729-821-88	s	TRANSISTOR 2SK1332-3
Q935	8-729-216-22	s	TRANSISTOR 2SA1162
Q936	8-729-821-88	s	TRANSISTOR 2SK1332-3
Q939	8-729-216-22	s	TRANSISTOR 2SA1162
Q940	8-729-821-88	s	TRANSISTOR 2SK1332-3
Q941	8-729-101-25	s	TRANSISTOR 2SC1009A-FA4
Q942	8-729-216-22	s	TRANSISTOR 2SA1162
Q943	8-729-216-22	s	TRANSISTOR 2SA1162
Q944	8-729-216-22	s	TRANSISTOR 2SA1162
Q945	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q946	8-729-216-22	s	TRANSISTOR 2SA1162
Q947	8-729-216-22	s	TRANSISTOR 2SA1162
Q948	8-729-216-22	s	TRANSISTOR 2SA1162
Q949	8-729-216-22	s	TRANSISTOR 2SA1162
Q951	8-729-216-22	s	TRANSISTOR 2SA1162
Q1011	8-729-216-22	s	TRANSISTOR 2SA1162
Q1012	8-729-821-88	s	TRANSISTOR 2SK1332-3
Q1013	8-729-216-22	s	TRANSISTOR 2SA1162
Q1014	8-729-821-88	s	TRANSISTOR 2SK1332-3
Q1015	8-729-216-22	s	TRANSISTOR 2SA1162
Q1016	8-729-821-88	s	TRANSISTOR 2SK1332-3
Q1019	8-729-216-22	s	TRANSISTOR 2SA1162
Q1020	8-729-821-88	s	TRANSISTOR 2SK1332-3
Q1021	8-729-101-25	s	TRANSISTOR 2SC1009A-FA4
Q1022	8-729-216-22	s	TRANSISTOR 2SA1162

NOTE : Please see page 1-11 for the parts that are not listed in the parts list.

(VA-156A/156B/156P BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
Q1023	8-729-216-22	s	TRANSISTOR 2SA1162
Q1024	8-729-216-22	s	TRANSISTOR 2SA1162
Q1026	8-729-216-22	s	TRANSISTOR 2SA1162
Q1030	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q1031	8-729-216-22	s	TRANSISTOR 2SA1162
Q1032	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q1101	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q1102	8-729-216-22	s	TRANSISTOR 2SA1162
Q1103	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q1104	8-729-216-22	s	TRANSISTOR 2SA1162
Q1105	8-729-216-22	s	TRANSISTOR 2SA1162
Q1301	8-729-216-22	s	TRANSISTOR 2SA1162
Q1302	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q1303	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q1304	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q1305	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q1306	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q1307	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q1308	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q1361	8-729-101-25	s	TRANSISTOR 2SC1009A-FA4
Q1362	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q1363	8-729-101-25	s	TRANSISTOR 2SC1009A-FA4
Q1364	8-729-122-63	s	TRANSISTOR 2SA1226
Q1365	8-729-122-63	s	TRANSISTOR 2SA1226
Q1366	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q1367	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q1368	8-729-122-63	s	TRANSISTOR 2SA1226
Q1369	8-729-122-63	s	TRANSISTOR 2SA1226
Q1370	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q1371	8-729-122-63	s	TRANSISTOR 2SA1226
Q1372	8-729-122-63	s	TRANSISTOR 2SA1226
Q1373	8-729-101-25	s	TRANSISTOR 2SC1009A-FA4
Q1374	8-729-101-25	s	TRANSISTOR 2SC1009A-FA4
Q1375	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q1376	8-729-122-63	s	TRANSISTOR 2SA1226
Q1377	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q1378	8-729-216-22	s	TRANSISTOR 2SA1162
Q1501	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q1502	8-729-122-63	s	TRANSISTOR 2SA1226
Q1503	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6 [for CCU-700AP(CE)]
Q1504	8-729-122-63	s	TRANSISTOR 2SA1226
Q1505	8-729-116-64	s	TRANSISTOR 2SK508-K51 [for CCU-700AP(CE)]
Q1514	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6 [for CCU-700A(UC)]
Q1515	8-729-216-22	s	TRANSISTOR 2SA1162
Q1516	8-729-216-22	s	TRANSISTOR 2SA1162
Q1517	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q1518	8-729-216-22	s	TRANSISTOR 2SA1162 [for CCU-700AP(CE)]
Q1603	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q1604	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q1605	8-729-216-22	s	TRANSISTOR 2SA1162
Q1606	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q1607	8-729-216-22	s	TRANSISTOR 2SA1162
Q1608	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q1609	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6

NOTE : Please see page 1-11 for the parts that are not listed in the parts list.

(VA-156A/156B/156P BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
Q1610	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q1611	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q1701	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q1702	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q1703	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q1704	8-729-122-63	s	TRANSISTOR 2SA1226
Q1705	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q1706	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q1707	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q1708	8-729-122-63	s	TRANSISTOR 2SA1226
Q1709	8-729-122-63	s	TRANSISTOR 2SA1226
Q1710	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q1711	8-729-122-63	s	TRANSISTOR 2SA1226
Q1712	8-729-175-73	s	TRANSISTOR 2SC2757
Q1713	8-729-175-73	s	TRANSISTOR 2SC2757
Q1714	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q1781	8-729-216-22	s	TRANSISTOR 2SA1162
Q1782	8-729-216-22	s	TRANSISTOR 2SA1162
Q1783	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q1784	8-729-216-22	s	TRANSISTOR 2SA1162
Q1785	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q1891	8-729-109-44	s	TRANSISTOR 2SK94
Q1892	8-729-109-44	s	TRANSISTOR 2SK94
Q1893	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q1894	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q1961	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q1962	8-729-216-22	s	TRANSISTOR 2SA1162
Q2031	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q2032	8-729-216-22	s	TRANSISTOR 2SA1162
Q2033	8-729-122-63	s	TRANSISTOR 2SA1226
Q2034	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q2035	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q2036	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q2037	8-729-216-22	s	TRANSISTOR 2SA1162
Q2038	8-729-216-22	s	TRANSISTOR 2SA1162
Q2039	8-729-122-63	s	TRANSISTOR 2SA1226
Q2040	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q2041	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q2042	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q2043	8-729-216-22	s	TRANSISTOR 2SA1162
Q2044	8-729-216-22	s	TRANSISTOR 2SA1162
Q2045	8-729-122-63	s	TRANSISTOR 2SA1226
Q2046	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q2201	8-729-216-22	s	TRANSISTOR 2SA1162
Q2202	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q2203	8-729-216-22	s	TRANSISTOR 2SA1162
Q2204	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q2205	8-729-216-22	s	TRANSISTOR 2SA1162
Q2206	8-729-216-22	s	TRANSISTOR 2SA1162
Q2207	8-729-216-22	s	TRANSISTOR 2SA1162
Q2208	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q2331	8-729-101-07	s	TRANSISTOR 2SB798
Q2332	8-729-807-51	s	TRANSISTOR 2SD1623-S
Q2333	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q2334	8-729-216-22	s	TRANSISTOR 2SA1162
Q2335	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
R5	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R17	1-216-690-11	s	METAL 43K 0.50% 1/10W

(VA-156A/156B/156P BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R19	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R20	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R21	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R22	1-216-627-11	s	METAL, CHIP 100 0.50% 1/10W
R24	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R25	1-216-699-11	s	METAL, CHIP 100K 0.50% 1/10W
R28	1-216-659-11	s	METAL, CHIP 2.2K 0.5% 1/10W
R30	1-216-660-11	s	METAL 2.4K 0.50% 1/10W
R31	1-208-799-11	s	METAL, CHIP 5.1K 0.50% 1/10W
R32	1-218-762-11	s	METAL, CHIP 270K 0.50% 1/10W
R38	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R41	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R44	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R46	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R47	1-216-655-11	s	METAL, CHIP 1.5K 0.50% 1/10W [for CCU-700A(J), CCU-700A(UC)]
R47	1-216-657-11	s	METAL, CHIP 1.8K 0.5% 1/10W [for CCU-700AP(CE)]
R56	1-208-799-11	s	METAL, CHIP 5.1K 0.50% 1/10W
R57	1-208-799-11	s	METAL, CHIP 5.1K 0.50% 1/10W
R66	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R74	1-216-634-11	s	METAL, CHIP 200 0.50% 1/10W
R75	1-216-687-11	s	METAL, CHIP 33K 0.5% 1/10W
R79	1-216-639-11	s	METAL, CHIP 330 0.5% 1/10W
R81	1-216-047-91	s	METAL, CHIP 820 5% 1/10W
R82	1-216-639-11	s	METAL, CHIP 330 0.5% 1/10W
R84	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R85	1-216-678-11	s	METAL, CHIP 13K 0.50% 1/10W
R86	1-208-784-11	s	METAL, CHIP 1.2K 0.50% 1/10W
R88	1-216-665-11	s	METAL, CHIP 3.9K 0.5% 1/10W
R90	1-216-689-11	s	METAL, CHIP 39K 0.5% 1/10W
R91	1-208-789-11	s	METAL, CHIP 2K 0.50% 1/10W
R93	1-216-121-91	s	METAL, CHIP 1M 5% 1/10W
R94	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R104	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R113	1-216-659-11	s	METAL, CHIP 2.2K 0.5% 1/10W [for CCU-700A(J), CCU-700A(UC)]
R113	1-208-789-11	s	METAL, CHIP 2K 0.50% 1/10W [for CCU-700AP(CE)]
R119	1-216-624-11	s	METAL 75 0.50% 1/10W
R123	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R137	1-216-627-11	s	METAL, CHIP 100 0.50% 1/10W
R138	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R141	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R143	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R144	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R146	1-216-663-11	s	METAL, CHIP 3.3K 0.5% 1/10W
R149	1-216-648-11	s	METAL, CHIP 750 0.50% 1/10W
R151	1-216-659-11	s	METAL, CHIP 2.2K 0.5% 1/10W
R152	1-216-637-11	s	METAL, CHIP 270 0.5% 1/10W
R155	1-216-661-11	s	METAL, CHIP 2.7K 0.5% 1/10W
R156	1-208-800-11	s	METAL, CHIP 5.6K 0.50% 1/10W
R157	1-216-664-11	s	METAL 3.6K 0.50% 1/10W
R158	1-216-627-11	s	METAL, CHIP 100 0.50% 1/10W
R159	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R163	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R167	1-216-635-11	s	METAL, CHIP 220 0.5% 1/10W
R170	1-216-638-11	s	METAL 300 0.50% 1/10W

NOTE : Please see page 1-11 for the parts that are not listed in the parts list.

(VA-156A/156B/156P BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R174	1-216-665-11	s	METAL, CHIP 3.9K 0.5% 1/10W
R177	1-208-784-11	s	METAL, CHIP 1.2K 0.50% 1/10W
R178	1-216-689-11	s	METAL, CHIP 39K 0.5% 1/10W
R179	1-208-789-11	s	METAL, CHIP 2K 0.50% 1/10W
R181	1-216-121-91	s	METAL, CHIP 1M 5% 1/10W
R182	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R183	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R192	1-216-673-11	s	METAL, CHIP 8.2K 0.5% 1/10W
R193	1-218-761-11	s	METAL 240K 0.50% 1/10W
R198	1-216-659-11	s	METAL, CHIP 2.2K 0.5% 1/10W [for CCU-700A(J), CCU-700A(UC)]
R198	1-208-789-11	s	METAL, CHIP 2K 0.50% 1/10W [for CCU-700AP(CE)]
R204	1-216-624-11	s	METAL 75 0.50% 1/10W
R220	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R222	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R230	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R232	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R235	1-216-627-11	s	METAL, CHIP 100 0.50% 1/10W
R236	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R239	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R241	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R242	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R243	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R244	1-216-663-11	s	METAL, CHIP 3.3K 0.5% 1/10W
R247	1-216-648-11	s	METAL, CHIP 750 0.50% 1/10W
R249	1-216-659-11	s	METAL, CHIP 2.2K 0.5% 1/10W
R250	1-216-637-11	s	METAL, CHIP 270 0.5% 1/10W
R253	1-216-661-11	s	METAL, CHIP 2.7K 0.5% 1/10W
R254	1-208-800-11	s	METAL, CHIP 5.6K 0.50% 1/10W
R255	1-216-664-11	s	METAL 3.6K 0.50% 1/10W
R256	1-216-627-11	s	METAL, CHIP 100 0.50% 1/10W
R257	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R261	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R269	1-216-673-11	s	METAL, CHIP 8.2K 0.5% 1/10W
R271	1-216-635-11	s	METAL, CHIP 220 0.5% 1/10W
R274	1-208-767-11	s	METAL, CHIP 240 0.50% 1/10W
R278	1-216-665-11	s	METAL, CHIP 3.9K 0.5% 1/10W
R281	1-208-784-11	s	METAL, CHIP 1.2K 0.50% 1/10W
R283	1-216-689-11	s	METAL, CHIP 39K 0.5% 1/10W
R284	1-208-789-11	s	METAL, CHIP 2K 0.50% 1/10W
R286	1-216-121-91	s	METAL, CHIP 1M 5% 1/10W
R287	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R288	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R291	1-216-666-11	s	METAL, CHIP 4.3K 0.5% 1/10W
R295	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R301	1-218-761-11	s	METAL 240K 0.50% 1/10W
R308	1-216-659-11	s	METAL, CHIP 2.2K 0.5% 1/10W [for CCU-700A(J), CCU-700A(UC)]
R308	1-208-789-11	s	METAL, CHIP 2K 0.50% 1/10W [for CCU-700AP(CE)]
R310	1-216-659-11	s	METAL, CHIP 2.2K 0.5% 1/10W
R314	1-216-624-11	s	METAL 75 0.50% 1/10W
R342	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R343	1-216-063-91	s	METAL, CHIP 3.9K 5% 1/10W
R346	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R350	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R358	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W

Ref. No. or Q'ty	Part No.	SP	Description
R360	1-208-800-11	s	METAL, CHIP 5.6K 0.50% 1/10W
R361	1-216-661-11	s	METAL, CHIP 2.7K 0.5% 1/10W
R363	1-216-063-91	s	METAL, CHIP 3.9K 5% 1/10W
R365	1-208-799-11	s	METAL, CHIP 5.1K 0.50% 1/10W
R368	1-216-662-11	s	METAL 3K 0.50% 1/10W
R369	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R370	1-208-784-11	s	METAL, CHIP 1.2K 0.50% 1/10W
R371	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R372	1-216-689-11	s	METAL, CHIP 39K 0.5% 1/10W
R378	1-208-822-11	s	METAL, CHIP 47K 0.50% 1/10W
R380	1-216-663-11	s	METAL, CHIP 3.3K 0.5% 1/10W
R388	1-216-648-11	s	METAL, CHIP 750 0.5% 1/10W
R390	1-216-665-11	s	METAL, CHIP 3.9K 0.5% 1/10W
R394	1-216-646-11	s	METAL, CHIP 620 0.5% 1/10W
R395	1-216-665-11	s	METAL, CHIP 3.9K 0.5% 1/10W
R397	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R398	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R399	1-216-635-11	s	METAL, CHIP 220 0.5% 1/10W
R400	1-216-632-11	s	METAL, CHIP 160 0.5% 1/10W
R401	1-216-639-11	s	METAL, CHIP 330 0.5% 1/10W
R402	1-216-641-11	s	METAL, CHIP 390 0.5% 1/10W
R403	1-208-774-11	s	METAL, CHIP 470 0.50% 1/10W
R404	1-216-637-11	s	METAL, CHIP 270 0.5% 1/10W
R405	1-218-764-11	s	METAL, CHIP 330K 0.50% 1/10W
R407	1-216-671-11	s	METAL, CHIP 6.8K 0.50% 1/10W
R410	1-216-682-11	s	METAL, CHIP 20K 0.5% 1/10W
R411	1-216-689-11	s	METAL, CHIP 39K 0.5% 1/10W
R418	1-216-627-11	s	METAL, CHIP 100 0.50% 1/10W
R419	1-216-677-11	s	METAL, CHIP 12K 0.5% 1/10W
R421	1-216-661-11	s	METAL, CHIP 2.7K 0.5% 1/10W
R422	1-216-660-11	s	METAL 2.4K 0.50% 1/10W
R423	1-208-767-11	s	METAL, CHIP 240 0.50% 1/10W
R424	1-208-767-11	s	METAL, CHIP 240 0.50% 1/10W
R425	1-208-785-11	s	METAL, CHIP 1.3K 0.50% 1/10W
R426	1-216-638-11	s	METAL 300 0.50% 1/10W
R427	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R429	1-216-674-11	s	METAL, CHIP 9.1K 0.5% 1/10W
R435	1-216-063-91	s	METAL, CHIP 3.9K 5% 1/10W
R438	1-216-687-11	s	METAL, CHIP 33K 0.5% 1/10W
R486	1-216-699-11	s	METAL, CHIP 100K 0.50% 1/10W [for CCU-700A(UC)]
R487	1-216-673-11	s	METAL, CHIP 8.2K 0.5% 1/10W
R489	1-216-660-11	s	METAL 2.4K 0.50% 1/10W [for CCU-700A(J)]
R489	1-216-663-11	s	METAL, CHIP 3.3K 0.5% 1/10W [for CCU-700A(UC)]
R489	1-216-661-11	s	METAL, CHIP 2.7K 0.5% 1/10W [for CCU-700AP(CE)]
R492	1-216-659-11	s	METAL, CHIP 2.2K 0.5% 1/10W
R496	1-216-624-11	s	METAL 75 0.50% 1/10W
R502	1-218-765-11	s	METAL, CHIP 360K 0.50% 1/10W
R505	1-216-047-91	s	METAL, CHIP 820 5% 1/10W
R507	1-216-689-11	s	METAL, CHIP 39K 0.5% 1/10W [for CCU-700A(J), CCU-700AP(CE)]
R507	1-216-699-11	s	METAL, CHIP 100K 0.50% 1/10W [for CCU-700A(UC)]
R508	1-216-673-11	s	METAL, CHIP 8.2K 0.5% 1/10W
R532	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R533	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R538	1-216-682-11	s	METAL, CHIP 20K 0.5% 1/10W
R541	1-216-627-11	s	METAL, CHIP 100 0.50% 1/10W
R542	1-216-673-11	s	METAL, CHIP 8.2K 0.5% 1/10W
R543	1-216-665-11	s	METAL, CHIP 3.9K 0.5% 1/10W
R544	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R546	1-216-665-11	s	METAL, CHIP 3.9K 0.5% 1/10W
R547	1-216-657-11	s	METAL, CHIP 1.8K 0.5% 1/10W
R548	1-216-641-11	s	METAL, CHIP 390 0.5% 1/10W
R549	1-216-665-11	s	METAL, CHIP 3.9K 0.5% 1/10W
R550	1-216-639-11	s	METAL, CHIP 330 0.5% 1/10W
R551	1-216-665-11	s	METAL, CHIP 3.9K 0.5% 1/10W
R553	1-216-689-11	s	METAL, CHIP 39K 0.5% 1/10W
R555	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R556	1-216-690-11	s	METAL 43K 0.50% 1/10W
R570	1-216-682-11	s	METAL, CHIP 20K 0.5% 1/10W
R571	1-218-773-11	s	CHIP, METAL 750K 0.50% 1/10W
R572	1-216-689-11	s	METAL, CHIP 39K 0.5% 1/10W
R624	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W [for CCU-700A(J)]
R624	1-216-652-11	s	METAL, CHIP 1.1K 0.5% 1/10W [for CCU-700A(UC)]
R624	1-216-657-11	s	METAL, CHIP 1.8K 0.5% 1/10W [for CCU-700AP(CE)]
R626	1-216-659-11	s	METAL, CHIP 2.2K 0.5% 1/10W
R630	1-216-624-11	s	METAL 75 0.50% 1/10W
R662	1-216-682-11	s	METAL, CHIP 20K 0.5% 1/10W
R665	1-216-627-11	s	METAL, CHIP 100 0.50% 1/10W
R666	1-216-673-11	s	METAL, CHIP 8.2K 0.5% 1/10W
R667	1-216-665-11	s	METAL, CHIP 3.9K 0.5% 1/10W
R668	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R670	1-216-665-11	s	METAL, CHIP 3.9K 0.5% 1/10W
R671	1-216-657-11	s	METAL, CHIP 1.8K 0.5% 1/10W
R672	1-216-641-11	s	METAL, CHIP 390 0.5% 1/10W
R673	1-216-665-11	s	METAL, CHIP 3.9K 0.5% 1/10W
R674	1-216-639-11	s	METAL, CHIP 330 0.5% 1/10W
R675	1-216-665-11	s	METAL, CHIP 3.9K 0.5% 1/10W
R677	1-216-689-11	s	METAL, CHIP 39K 0.5% 1/10W
R678	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R679	1-216-690-11	s	METAL 43K 0.50% 1/10W
R697	1-216-682-11	s	METAL, CHIP 20K 0.5% 1/10W
R698	1-218-773-11	s	CHIP, METAL 750K 0.50% 1/10W
R699	1-216-689-11	s	METAL, CHIP 39K 0.5% 1/10W
R734	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W [for CCU-700A(J)]
R734	1-216-652-11	s	METAL, CHIP 1.1K 0.5% 1/10W [for CCU-700A(UC)]
R734	1-216-657-11	s	METAL, CHIP 1.8K 0.5% 1/10W [for CCU-700AP(CE)]
R736	1-216-659-11	s	METAL, CHIP 2.2K 0.5% 1/10W
R740	1-216-624-11	s	METAL 75 0.50% 1/10W
R766	1-208-800-11	s	METAL, CHIP 5.6K 0.50% 1/10W
R767	1-216-689-11	s	METAL, CHIP 39K 0.5% 1/10W
R770	1-208-800-11	s	METAL, CHIP 5.6K 0.50% 1/10W
R771	1-216-689-11	s	METAL, CHIP 39K 0.5% 1/10W
R774	1-208-800-11	s	METAL, CHIP 5.6K 0.50% 1/10W

NOTE : Please see page 1-11 for the parts that are not listed in the parts list.

Ref. No. or Q'ty	Part No.	SP	Description
R775	1-216-689-11	s	METAL, CHIP 39K 0.5% 1/10W
R778	1-208-800-11	s	METAL, CHIP 5.6K 0.50% 1/10W
R802	1-216-659-11	s	METAL, CHIP 2.2K 0.5% 1/10W [for CCU-700A(J), CCU-700A(UC)]
R802	1-208-789-11	s	METAL, CHIP 2K 0.50% 1/10W [for CCU-700AP(CE)]
R804	1-216-659-11	s	METAL, CHIP 2.2K 0.5% 1/10W
R808	1-216-624-11	s	METAL 75 0.50% 1/10W
R810	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R812	1-216-696-11	s	METAL 75K 0.50% 1/10W
R842	1-216-663-11	s	METAL, CHIP 3.3K 0.5% 1/10W
R846	1-216-663-11	s	METAL, CHIP 3.3K 0.5% 1/10W
R850	1-216-663-11	s	METAL, CHIP 3.3K 0.5% 1/10W
R858	1-216-666-11	s	METAL, CHIP 4.3K 0.5% 1/10W
R873	1-216-689-11	s	METAL, CHIP 39K 0.5% 1/10W
R875	1-216-689-11	s	METAL, CHIP 39K 0.5% 1/10W
R877	1-216-689-11	s	METAL, CHIP 39K 0.5% 1/10W
R881	1-216-689-11	s	METAL, CHIP 39K 0.5% 1/10W
R898	1-216-656-11	s	METAL 1.6K 0.50% 1/10W
R900	1-216-659-11	s	METAL, CHIP 2.2K 0.5% 1/10W
R904	1-216-624-11	s	METAL 75 0.50% 1/10W
R910	1-216-697-91	s	METAL, CHIP 82K 0.50% 1/10W
R932	1-216-663-11	s	METAL, CHIP 3.3K 0.5% 1/10W
R936	1-216-666-11	s	METAL, CHIP 4.3K 0.5% 1/10W
R940	1-216-663-11	s	METAL, CHIP 3.3K 0.5% 1/10W
R941	1-216-645-11	s	METAL 560 0.50% 1/10W
R949	1-216-666-11	s	METAL, CHIP 4.3K 0.5% 1/10W
R952	1-216-645-11	s	METAL 560 0.50% 1/10W
R953	1-216-645-11	s	METAL 560 0.50% 1/10W
R955	1-216-645-11	s	METAL 560 0.50% 1/10W
R957	1-216-689-11	s	METAL, CHIP 39K 0.5% 1/10W
R959	1-216-689-11	s	METAL, CHIP 39K 0.5% 1/10W
R961	1-216-689-11	s	METAL, CHIP 39K 0.5% 1/10W
R965	1-216-689-11	s	METAL, CHIP 39K 0.5% 1/10W
R972	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R973	1-216-674-11	s	METAL, CHIP 9.1K 0.5% 1/10W
R974	1-216-652-11	s	METAL, CHIP 1.1K 0.5% 1/10W
R976	1-216-659-11	s	METAL, CHIP 2.2K 0.5% 1/10W
R980	1-216-624-11	s	METAL 75 0.50% 1/10W
R983	1-216-089-91	s	METAL 47K 5% 1/10W
R987	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R988	1-216-089-91	s	METAL 47K 5% 1/10W
R990	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R1012	1-216-663-11	s	METAL, CHIP 3.3K 0.5% 1/10W
R1016	1-216-666-11	s	METAL, CHIP 4.3K 0.5% 1/10W
R1020	1-216-663-11	s	METAL, CHIP 3.3K 0.5% 1/10W
R1021	1-216-645-11	s	METAL 560 0.50% 1/10W
R1029	1-216-666-11	s	METAL, CHIP 4.3K 0.5% 1/10W
R1032	1-216-645-11	s	METAL 560 0.50% 1/10W
R1033	1-216-645-11	s	METAL 560 0.50% 1/10W
R1035	1-216-645-11	s	METAL 560 0.50% 1/10W
R1037	1-216-689-11	s	METAL, CHIP 39K 0.5% 1/10W
R1039	1-216-689-11	s	METAL, CHIP 39K 0.5% 1/10W
R1041	1-216-689-11	s	METAL, CHIP 39K 0.5% 1/10W
R1045	1-216-689-11	s	METAL, CHIP 39K 0.5% 1/10W
R1052	1-208-775-11	s	METAL, CHIP 510 0.50% 1/10W [for CCU-700A(J), CCU-700A(UC)]
R1052	1-216-652-11	s	METAL, CHIP 1.1K 0.5% 1/10W [for CCU-700AP(CE)]
R1053	1-216-674-11	s	METAL, CHIP 9.1K 0.5% 1/10W [for CCU-700AP(CE)]
R1054	1-208-775-11	s	METAL, CHIP 510 0.50% 1/10W [for CCU-700A(J), CCU-700A(UC)]
R1054	1-216-652-11	s	METAL, CHIP 1.1K 0.5% 1/10W [for CCU-700AP(CE)]
R1060	1-216-674-11	s	METAL, CHIP 9.1K 0.5% 1/10W
R1061	1-216-656-11	s	METAL 1.6K 0.50% 1/10W
R1063	1-216-659-11	s	METAL, CHIP 2.2K 0.5% 1/10W
R1067	1-216-624-11	s	METAL 75 0.50% 1/10W
R1105	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R1106	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R1107	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R1109	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R1110	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R1111	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R1112	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R1118	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R1119	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R1120	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R1121	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R1122	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R1123	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R1124	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R1125	1-216-682-11	s	METAL, CHIP 20K 0.5% 1/10W
R1128	1-208-810-11	s	METAL, CHIP 15K 0.50% 1/10W
R1129	1-208-799-11	s	METAL, CHIP 5.1K 0.50% 1/10W
R1130	1-216-673-11	s	METAL, CHIP 8.2K 0.5% 1/10W
R1131	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R1138	1-216-687-11	s	METAL, CHIP 33K 0.5% 1/10W
R1140	1-216-687-11	s	METAL, CHIP 33K 0.5% 1/10W
R1301	1-216-659-11	s	METAL, CHIP 2.2K 0.5% 1/10W
R1302	1-208-801-11	s	METAL, CHIP 6.2K 0.50% 1/10W
R1310	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R1313	1-216-655-11	s	METAL, CHIP 1.5K 0.50% 1/10W [for CCU-700A(J)]
R1313	1-216-657-11	s	METAL, CHIP 1.8K 0.5% 1/10W [for CCU-700A(UC)]
R1313	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W [for CCU-700AP(CE)]
R1315	1-208-800-11	s	METAL, CHIP 5.6K 0.50% 1/10W
R1317	1-208-799-11	s	METAL, CHIP 5.1K 0.50% 1/10W
R1318	1-208-799-11	s	METAL, CHIP 5.1K 0.50% 1/10W
R1319	1-216-699-11	s	METAL, CHIP 100K 0.50% 1/10W
R1320	1-208-811-11	s	METAL 16K 0.50% 1/10W
R1321	1-216-688-11	s	METAL, CHIP 36K 0.50% 1/10W
R1324	1-216-677-11	s	METAL, CHIP 12K 0.5% 1/10W [for CCU-700A(J), CCU-700AP(CE)]
R1324	1-208-810-11	s	METAL, CHIP 15K 0.50% 1/10W [for CCU-700A(UC)]
R1325	1-216-673-11	s	METAL, CHIP 8.2K 0.5% 1/10W [for CCU-700A(UC)]
R1360	1-216-687-11	s	METAL, CHIP 33K 0.5% 1/10W
R1362	1-216-687-11	s	METAL, CHIP 33K 0.5% 1/10W
R1363	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W

NOTE : Please see page 1-11 for the parts that are not listed in the parts list.

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Ref. No. or Q'ty	Part No.	SP	Description
R1364	1-216-649-11	s	METAL, CHIP 820 0.50% 1/10W
R1365	1-216-649-11	s	METAL, CHIP 820 0.50% 1/10W
R1370	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R1371	1-216-639-11	s	METAL, CHIP 330 0.5% 1/10W
R1372	1-208-810-11	s	METAL, CHIP 15K 0.50% 1/10W [for CCU-700A(J), CCU-700A(UC)]
R1372	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W [for CCU-700AP(CE)]
R1373	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W [for CCU-700A(J), CCU-700A(UC)]
R1373	1-208-800-11	s	METAL, CHIP 5.6K 0.50% 1/10W [for CCU-700AP(CE)]
R1374	1-218-769-11	s	METAL 510K 0.50% 1/10W
R1380	1-208-774-11	s	METAL, CHIP 470 0.50% 1/10W [for CCU-700A(J), CCU-700A(UC)]
R1380	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W [for CCU-700AP(CE)]
R1381	1-216-676-11	s	METAL, CHIP 11K 0.50% 1/10W
R1382	1-216-678-11	s	METAL, CHIP 13K 0.50% 1/10W
R1383	1-208-774-11	s	METAL, CHIP 470 0.50% 1/10W [for CCU-700A(J), CCU-700A(UC)]
R1383	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W [for CCU-700AP(CE)]
R1384	1-216-665-11	s	METAL, CHIP 3.9K 0.5% 1/10W
R1385	1-208-771-11	s	METAL, CHIP 360 0.50% 1/10W
R1388	1-216-694-11	s	METAL, CHIP 62K 0.50% 1/10W
R1389	1-216-063-91	s	METAL, CHIP 3.9K 5% 1/10W [for CCU-700A(J), CCU-700A(UC)]
R1389	1-216-666-11	s	METAL, CHIP 4.3K 0.5% 1/10W [for CCU-700AP(CE)]
R1390	1-208-799-11	s	METAL, CHIP 5.1K 0.50% 1/10W [for CCU-700A(J), CCU-700A(UC)]
R1390	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W [for CCU-700AP(CE)]
R1392	1-216-089-91	s	METAL 47K 5% 1/10W
R1394	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R1395	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R1406	1-216-645-11	s	METAL 560 0.50% 1/10W
R1407	1-208-800-11	s	METAL, CHIP 5.6K 0.50% 1/10W
R1410	1-208-824-11	s	METAL, CHIP 56K 0.50% 1/10W
R1412	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R1415	1-208-824-11	s	METAL, CHIP 56K 0.50% 1/10W
R1416	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R1420	1-216-017-91	s	METAL, CHIP 47 5% 1/10W
R1421	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W [for CCU-700A(J), CCU-700A(UC)]
R1422	1-216-666-11	s	METAL, CHIP 4.3K 0.5% 1/10W
R1424	1-208-822-11	s	METAL, CHIP 47K 0.50% 1/10W
R1425	1-208-801-11	s	METAL, CHIP 6.2K 0.50% 1/10W
R1426	1-216-663-11	s	METAL, CHIP 3.3K 0.5% 1/10W
R1428	1-216-689-11	s	METAL, CHIP 39K 0.5% 1/10W
R1430	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R1431	1-216-649-11	s	METAL, CHIP 820 0.50% 1/10W
R1436	1-208-811-11	s	METAL 16K 0.50% 1/10W
R1438	1-208-775-11	s	METAL, CHIP 510 0.50% 1/10W [for CCU-700A(J), CCU-700A(UC)]
R1438	1-216-642-11	s	METAL, CHIP 430 0.5% 1/10W [for CCU-700AP(CE)]
R1443	1-208-775-11	s	METAL, CHIP 510 0.50% 1/10W [for CCU-700A(J), CCU-700A(UC)]
R1443	1-216-642-11	s	METAL, CHIP 430 0.5% 1/10W [for CCU-700AP(CE)]
R1501	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R1505	1-208-803-11	s	METAL, CHIP 7.5K 0.50% 1/10W
R1513	1-216-645-11	s	METAL 560 0.50% 1/10W
R1517	1-208-800-11	s	METAL, CHIP 5.6K 0.50% 1/10W [for CCU-700A(J), CCU-700A(UC)]
R1517	1-216-665-11	s	METAL, CHIP 3.9K 0.5% 1/10W [for CCU-700AP(CE)]
R1519	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W [for CCU-700AP(CE)]
R1520	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W [for CCU-700AP(CE)]
R1521	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W [for CCU-700AP(CE)]
R1523	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W [for CCU-700AP(CE)]
R1524	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W [for CCU-700AP(CE)]
R1539	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W [for CCU-700AP(CE)]
R1541	1-216-656-11	s	METAL 1.6K 0.50% 1/10W
R1542	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R1544	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W [for CCU-700A(UC)]
R1547	1-216-656-11	s	METAL 1.6K 0.50% 1/10W [for CCU-700A(J)]
R1547	1-208-789-11	s	METAL, CHIP 2K 0.50% 1/10W [for CCU-700A(UC)]
R1547	1-216-657-11	s	METAL, CHIP 1.8K 0.5% 1/10W [for CCU-700AP(CE)]
R1550	1-216-105-91	s	METAL, CHIP 220K 5% 1/10W
R1553	1-216-638-11	s	METAL 300 0.50% 1/10W
R1554	1-208-800-11	s	METAL, CHIP 5.6K 0.50% 1/10W
R1556	1-216-638-11	s	METAL 300 0.50% 1/10W
R1559	1-208-800-11	s	METAL, CHIP 5.6K 0.50% 1/10W
R1598	1-216-694-11	s	METAL, CHIP 62K 0.50% 1/10W
R1607	1-208-775-11	s	METAL, CHIP 510 0.50% 1/10W [for CCU-700A(J), CCU-700A(UC)]
R1607	1-216-652-11	s	METAL, CHIP 1.1K 0.5% 1/10W [for CCU-700AP(CE)]
R1609	1-208-822-11	s	METAL, CHIP 47K 0.50% 1/10W
R1610	1-216-674-11	s	METAL, CHIP 9.1K 0.5% 1/10W [for CCU-700AP(CE)]

NOTE : Please see page 1-11 for the parts that are not listed in the parts list.

(VA-156A/156B/156P BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R1611	1-208-775-11	s	METAL, CHIP 510 0.50% 1/10W [for CCU-700A(J), CCU-700A(UC)]
R1611	1-216-650-11	s	METAL, CHIP 910 0.50% 1/10W [for CCU-700AP(CE)]
R1613	1-208-817-11	s	METAL, CHIP 30K 0.50% 1/10W [for CCU-700A(J), CCU-700A(UC)]
R1613	1-216-685-11	s	METAL, CHIP 27K 0.5% 1/10W [for CCU-700AP(CE)]
R1616	1-216-664-11	s	METAL 3.6K 0.50% 1/10W
R1617	1-216-656-11	s	METAL 1.6K 0.50% 1/10W [for CCU-700A(J), CCU-700AP(CE)]
R1617	1-216-657-11	s	METAL, CHIP 1.8K 0.5% 1/10W [for CCU-700A(UC)]
R1619	1-216-627-11	s	METAL, CHIP 100 0.50% 1/10W
R1620	1-218-754-11	s	METAL 120K 0.50% 1/10W
R1622	1-216-665-11	s	METAL, CHIP 3.9K 0.5% 1/10W
R1623	1-208-800-11	s	METAL, CHIP 5.6K 0.50% 1/10W [for CCU-700A(J), CCU-700A(UC)]
R1623	1-216-666-11	s	METAL, CHIP 4.3K 0.5% 1/10W [for CCU-700AP(CE)]
R1624	1-216-676-11	s	METAL, CHIP 11K 0.50% 1/10W
R1625	1-216-628-11	s	METAL 110 0.50% 1/10W
R1626	1-216-663-11	s	METAL, CHIP 3.3K 0.5% 1/10W
R1627	1-216-635-11	s	METAL, CHIP 220 0.5% 1/10W
R1628	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R1629	1-218-767-11	s	METAL, CHIP 430K 0.50% 1/10W
R1630	1-216-627-11	s	METAL, CHIP 100 0.50% 1/10W
R1631	1-218-754-11	s	METAL 120K 0.50% 1/10W
R1633	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R1635	1-216-659-11	s	METAL, CHIP 2.2K 0.5% 1/10W
R1636	1-208-812-11	s	METAL, CHIP 18K 0.50% 1/10W
R1637	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R1643	1-216-624-11	s	METAL 75 0.50% 1/10W
R1646	1-216-659-11	s	METAL, CHIP 2.2K 0.5% 1/10W
R1647	1-208-812-11	s	METAL, CHIP 18K 0.50% 1/10W
R1648	1-216-666-11	s	METAL, CHIP 4.3K 0.5% 1/10W
R1654	1-216-624-11	s	METAL 75 0.50% 1/10W
R1656	1-216-659-11	s	METAL, CHIP 2.2K 0.5% 1/10W
R1657	1-208-812-11	s	METAL, CHIP 18K 0.50% 1/10W
R1658	1-216-666-11	s	METAL, CHIP 4.3K 0.5% 1/10W
R1664	1-216-624-11	s	METAL 75 0.50% 1/10W
R1666	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R1716	1-216-666-11	s	METAL, CHIP 4.3K 0.5% 1/10W
R1725	1-216-121-91	s	METAL, CHIP 1M 5% 1/10W
R1730	1-216-659-11	s	METAL, CHIP 2.2K 0.5% 1/10W
R1734	1-216-304-11	s	METAL 3.3 5% 1/10W
R1781	1-208-810-11	s	METAL, CHIP 15K 0.50% 1/10W
R1783	1-208-785-11	s	METAL, CHIP 1.3K 0.50% 1/10W
R1786	1-216-664-11	s	METAL 3.6K 0.50% 1/10W
R1787	1-216-677-11	s	METAL, CHIP 12K 0.5% 1/10W [for CCU-700A(J), CCU-700A(UC)]
R1787	1-208-803-11	s	METAL, CHIP 7.5K 0.50% 1/10W [for CCU-700AP(CE)]
R1790	1-216-063-91	s	METAL, CHIP 3.9K 5% 1/10W
R1791	1-216-657-11	s	METAL, CHIP 1.8K 0.5% 1/10W

(VA-156A/156B/156P BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R1792	1-208-784-11	s	METAL, CHIP 1.2K 0.50% 1/10W
R1799	1-216-674-11	s	METAL, CHIP 9.1K 0.5% 1/10W
R1800	1-216-674-11	s	METAL, CHIP 9.1K 0.5% 1/10W
R1801	1-216-089-91	s	METAL 47K 5% 1/10W
R1803	1-216-674-11	s	METAL, CHIP 9.1K 0.5% 1/10W
R1804	1-216-671-11	s	METAL, CHIP 6.8K 0.50% 1/10W
R1806	1-216-694-11	s	METAL, CHIP 62K 0.50% 1/10W [for CCU-700A(J), CCU-700A(UC)]
R1809	1-216-676-11	s	METAL, CHIP 11K 0.50% 1/10W
R1811	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R1812	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R1813	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R1817	1-208-800-11	s	METAL, CHIP 5.6K 0.50% 1/10W
R1820	1-216-659-11	s	METAL, CHIP 2.2K 0.5% 1/10W
R1821	1-216-659-11	s	METAL, CHIP 2.2K 0.5% 1/10W
R1827	1-216-659-11	s	METAL, CHIP 2.2K 0.5% 1/10W [for CCU-700A(J), CCU-700A(UC)]
R1831	1-208-810-11	s	METAL, CHIP 15K 0.50% 1/10W
R1836	1-216-049-91	s	METAL, CHIP 1K 5% 1/10W
R1851	1-216-699-11	s	METAL, CHIP 100K 0.50% 1/10W
R1855	1-216-664-11	s	METAL 3.6K 0.50% 1/10W
R1895	1-208-799-11	s	METAL, CHIP 5.1K 0.50% 1/10W
R1896	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R1897	1-208-799-11	s	METAL, CHIP 5.1K 0.50% 1/10W
R1906	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R1909	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R1914	1-216-121-91	s	METAL, CHIP 1M 5% 1/10W
R1916	1-216-659-11	s	METAL, CHIP 2.2K 0.5% 1/10W
R1929	1-216-089-91	s	METAL 47K 5% 1/10W
R1961	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R1962	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R1967	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R1968	1-216-660-11	s	METAL 2.4K 0.50% 1/10W
R1969	1-216-699-11	s	METAL, CHIP 100K 0.50% 1/10W
R1972	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R1973	1-216-660-11	s	METAL 2.4K 0.50% 1/10W
R1974	1-216-699-11	s	METAL, CHIP 100K 0.50% 1/10W
R1976	1-216-657-11	s	METAL, CHIP 1.8K 0.5% 1/10W
R1982	1-216-659-11	s	METAL, CHIP 2.2K 0.5% 1/10W
R1984	1-216-684-11	s	METAL, CHIP 24K 0.50% 1/10W
R1985	1-216-682-11	s	METAL, CHIP 20K 0.5% 1/10W
R1988	1-208-811-11	s	METAL 16K 0.50% 1/10W
R1996	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R1998	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R2001	1-216-671-11	s	METAL, CHIP 6.8K 0.50% 1/10W
R2036	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R2039	1-216-674-11	s	METAL, CHIP 9.1K 0.5% 1/10W
R2040	1-208-812-11	s	METAL, CHIP 18K 0.50% 1/10W
R2041	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R2042	1-216-665-11	s	METAL, CHIP 3.9K 0.5% 1/10W
R2043	1-208-812-11	s	METAL, CHIP 18K 0.50% 1/10W
R2044	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R2045	1-216-665-11	s	METAL, CHIP 3.9K 0.5% 1/10W
R2046	1-208-812-11	s	METAL, CHIP 18K 0.50% 1/10W
R2047	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R2048	1-216-665-11	s	METAL, CHIP 3.9K 0.5% 1/10W
R2049	1-216-699-11	s	METAL, CHIP 100K 0.50% 1/10W [for CCU-700A(J), CCU-700A(UC)]

NOTE : Please see page 1-11 for the parts that are not listed in the parts list.

Ref. No. or Q'ty	Part No.	SP	Description
R2049	1-216-698-11	s	METAL 91K 0.50% 1/10W [for CCU-700AP(CE)]
R2050	1-216-673-11	s	METAL, CHIP 8.2K 0.5% 1/10W [for CCU-700A(J), CCU-700A(UC)]
R2050	1-208-810-11	s	METAL, CHIP 15K 0.50% 1/10W [for CCU-700AP(CE)]
R2051	1-218-759-11	s	METAL, CHIP 200K 0.50% 1/10W [for CCU-700A(J), CCU-700A(UC)]
R2052	1-218-759-11	s	METAL, CHIP 200K 0.50% 1/10W [for CCU-700A(J), CCU-700A(UC)]
R2054	1-216-627-11	s	METAL, CHIP 100 0.50% 1/10W
R2056	1-208-812-11	s	METAL, CHIP 18K 0.50% 1/10W [for CCU-700AP(CE)]
R2057	1-216-678-11	s	METAL, CHIP 13K 0.50% 1/10W [for CCU-700A(J), CCU-700A(UC)]
R2057	1-208-800-11	s	METAL, CHIP 5.6K 0.50% 1/10W [for CCU-700AP(CE)]
R2058	1-216-089-91	s	METAL 47K 5% 1/10W
R2061	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R2064	1-208-812-11	s	METAL, CHIP 18K 0.50% 1/10W
R2065	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R2067	1-208-812-11	s	METAL, CHIP 18K 0.50% 1/10W
R2068	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R2069	1-216-663-11	s	METAL, CHIP 3.3K 0.5% 1/10W
R2070	1-208-812-11	s	METAL, CHIP 18K 0.50% 1/10W
R2071	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R2073	1-208-784-11	s	METAL, CHIP 1.2K 0.50% 1/10W
R2074	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2075	1-216-659-11	s	METAL, CHIP 2.2K 0.5% 1/10W
R2076	1-216-659-11	s	METAL, CHIP 2.2K 0.5% 1/10W
R2077	1-216-089-91	s	METAL 47K 5% 1/10W
R2078	1-216-655-11	s	METAL, CHIP 1.5K 0.50% 1/10W
R2080	1-216-694-11	s	METAL, CHIP 62K 0.50% 1/10W
R2081	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R2082	1-208-799-11	s	METAL, CHIP 5.1K 0.50% 1/10W
R2083	1-216-661-11	s	METAL, CHIP 2.7K 0.5% 1/10W
R2084	1-216-631-11	s	METAL 150 0.50% 1/10W [for CCU-700A(J), CCU-700A(UC)]
R2084	1-216-615-11	s	METAL 33 0.50% 1/10W [for CCU-700AP(CE)]
R2086	1-216-089-91	s	METAL 47K 5% 1/10W
R2089	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R2090	1-208-784-11	s	METAL, CHIP 1.2K 0.50% 1/10W
R2091	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2092	1-216-089-91	s	METAL 47K 5% 1/10W
R2093	1-216-655-11	s	METAL, CHIP 1.5K 0.50% 1/10W
R2094	1-216-659-11	s	METAL, CHIP 2.2K 0.5% 1/10W
R2095	1-216-659-11	s	METAL, CHIP 2.2K 0.5% 1/10W
R2097	1-216-694-11	s	METAL, CHIP 62K 0.50% 1/10W
R2098	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R2099	1-208-799-11	s	METAL, CHIP 5.1K 0.50% 1/10W
R2100	1-216-661-11	s	METAL, CHIP 2.7K 0.5% 1/10W
R2101	1-216-629-11	s	METAL, CHIP 120 0.50% 1/10W [for CCU-700A(J), CCU-700A(UC)]

NOTE : Please see page 1-11 for the parts that are not listed in the parts list.

Ref. No. or Q'ty	Part No.	SP	Description
R2101	1-216-615-11	s	METAL 33 0.50% 1/10W [for CCU-700AP(CE)]
R2103	1-216-089-91	s	METAL 47K 5% 1/10W
R2106	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R2107	1-216-662-11	s	METAL 3K 0.50% 1/10W
R2108	1-216-662-11	s	METAL 3K 0.50% 1/10W
R2116	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R2117	1-216-634-11	s	METAL, CHIP 200 0.50% 1/10W
R2118	1-216-634-11	s	METAL, CHIP 200 0.50% 1/10W
R2127	1-216-105-91	s	METAL, CHIP 220K 5% 1/10W
R2128	1-216-684-11	s	METAL, CHIP 24K 0.50% 1/10W
R2129	1-216-684-11	s	METAL, CHIP 24K 0.50% 1/10W
R2130	1-216-684-11	s	METAL, CHIP 24K 0.50% 1/10W
R2201	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R2202	1-216-659-11	s	METAL, CHIP 2.2K 0.5% 1/10W
R2203	1-216-659-11	s	METAL, CHIP 2.2K 0.5% 1/10W
R2205	1-216-624-11	s	METAL 75 0.50% 1/10W
R2208	1-216-666-11	s	METAL, CHIP 4.3K 0.5% 1/10W
R2210	1-216-624-11	s	METAL 75 0.50% 1/10W
R2216	1-216-089-91	s	METAL 47K 5% 1/10W
R2217	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R2223	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R2224	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R2225	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R2262	1-208-811-11	s	METAL 16K 0.50% 1/10W
R2263	1-216-659-11	s	METAL, CHIP 2.2K 0.5% 1/10W
R2264	1-216-677-11	s	METAL, CHIP 12K 0.5% 1/10W
R2266	1-216-624-11	s	METAL 75 0.50% 1/10W
R2267	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R2268	1-208-801-11	s	METAL, CHIP 6.2K 0.50% 1/10W
R2273	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R2275	1-216-659-11	s	METAL, CHIP 2.2K 0.5% 1/10W
R2276	1-216-659-11	s	METAL, CHIP 2.2K 0.5% 1/10W
R2289	1-218-753-11	s	METAL 110K 0.50% 1/10W
R2290	1-216-698-11	s	METAL 91K 0.50% 1/10W
R2291	1-216-689-11	s	METAL, CHIP 39K 0.5% 1/10W
R2296	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R2341	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2342	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2345	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2346	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2347	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2348	1-208-814-11	s	METAL, CHIP 22K 0.50% 1/10W
R2349	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R2352	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R2355	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
RB1	1-239-960-11	s	MATRIX RESISTOR
RB125	1-239-958-11	s	MATRIX RESISTOR
RB221	1-239-959-11	s	MATRIX RESISTOR
RB1361	1-239-961-11	s	MATRIX RESISTOR [for CCU-700A(J), CCU-700A(UC)]
RB1362	1-239-962-11	s	MATRIX RESISTOR [for CCU-700A(J), CCU-700A(UC)]
RB2031	1-239-024-11	s	MATRIX RESISTOR
RB2032	1-239-025-11	s	MATRIX RESISTOR
RB2033	1-239-026-11	s	MATRIX RESISTOR
RV1	1-228-461-00	s	RES, ADJ, METAL 50K

Ref. No. or Q'ty	Part No.	SP	Description
RV10	1-228-456-00	s	RES, ADJ, METAL 1K
RV11	1-228-457-00	s	RES, ADJ, METAL 2K
RV12	1-228-454-00	s	RES, ADJ, METAL 200
RV20	1-228-455-00	s	RES, ADJ, METAL 500
RV125	1-228-461-00	s	RES, ADJ, METAL 50K
RV135	1-228-456-00	s	RES, ADJ, METAL 1K
RV136	1-228-454-00	s	RES, ADJ, METAL 200
RV137	1-228-462-00	s	RES, ADJ, METAL 100K
RV145	1-228-455-00	s	RES, ADJ, METAL 500
RV221	1-228-461-00	s	RES, ADJ, METAL 50K
RV270	1-228-456-00	s	RES, ADJ, METAL 1K
RV271	1-228-454-00	s	RES, ADJ, METAL 200
RV272	1-228-462-00	s	RES, ADJ, METAL 100K
RV280	1-228-455-00	s	RES, ADJ, METAL 500
RV341	1-228-453-00	s	RES, ADJ, METAL 100
RV342	1-228-458-00	s	RES, ADJ, METAL 5K
RV360	1-228-457-00	s	RES, ADJ, METAL 2K
RV361	1-228-455-00	s	RES, ADJ, METAL 500
RV521	1-228-460-00	s	RES, ADJ, METAL 20K
RV533	1-228-454-00	s	RES, ADJ, METAL 200 [for CCU-700A(J), CCU-700A(UC)]
RV533	1-228-455-00	s	RES, ADJ, METAL 500 [for CCU-700AP(CE)]
RV651	1-228-460-00	s	RES, ADJ, METAL 20K
RV670	1-228-454-00	s	RES, ADJ, METAL 200 [for CCU-700A(J), CCU-700A(UC)]
RV670	1-228-455-00	s	RES, ADJ, METAL 500 [for CCU-700AP(CE)]
RV761	1-228-470-00	s	RES, ADJ, METAL 500
RV841	1-228-455-00	s	RES, ADJ, METAL 500
RV931	1-228-455-00	s	RES, ADJ, METAL 500
RV1011	1-228-455-00	s	RES, ADJ, METAL 500
RV1101	1-228-475-00	s	RES, ADJ, METAL 20K
RV1102	1-228-474-00	s	RES, ADJ, METAL 10K
RV1301	1-228-459-00	s	RES, ADJ, METAL 10K
RV1302	1-228-458-00	s	RES, ADJ, METAL 5K
RV1303	1-228-470-00	s	RES, ADJ, METAL 500
RV1304	1-228-474-00	s	RES, ADJ, METAL 10K [for CCU-700A(J), CCU-700A(UC)]
RV1304	1-228-473-00	s	RES, ADJ, METAL 5K [for CCU-700AP(CE)]
RV1361	1-228-457-00	s	RES, ADJ, METAL 2K [for CCU-700A(J), CCU-700A(UC)]
RV1361	1-228-459-00	s	RES, ADJ, METAL 10K [for CCU-700AP(CE)]
RV1362	1-230-752-21	s	RES, ADJ, METAL 50K
RV1363	1-230-752-21	s	RES, ADJ, METAL 50K
RV1364	1-228-469-00	s	RES, ADJ, METAL 200
RV1501	1-228-460-00	s	RES, ADJ, METAL 20K [for CCU-700AP(CE)]
RV1502	1-228-455-00	s	RES, ADJ, METAL 500 [for CCU-700AP(CE)]
RV1503	1-228-460-00	s	RES, ADJ, METAL 20K [for CCU-700AP(CE)]
RV1505	1-228-460-00	s	RES, ADJ, METAL 20K [for CCU-700A(UC)]

NOTE : Please see page 1-11 for the parts that are not listed in the parts list.

Ref. No. or Q'ty	Part No.	SP	Description
RV1602	1-228-471-00	s	RES, ADJ, METAL 1K
RV1603	1-228-456-00	s	RES, ADJ, METAL 1K
RV1604	1-228-456-00	s	RES, ADJ, METAL 1K
RV1781	1-228-459-00	s	RES, ADJ, METAL 10K
RV1782	1-228-459-00	s	RES, ADJ, METAL 10K
RV1783	1-228-459-00	s	RES, ADJ, METAL 10K
RV1891	1-228-456-00	s	RES, ADJ, METAL 1K
RV1892	1-228-460-00	s	RES, ADJ, METAL 20K
RV1961	1-228-474-00	s	RES, ADJ, METAL 10K
RV1962	1-228-473-00	s	RES, ADJ, METAL 5K
RV1963	1-228-474-00	s	RES, ADJ, METAL 10K
RV1965	1-228-459-00	s	RES, ADJ, METAL 10K
RV2031	1-228-456-00	s	RES, ADJ, METAL 1K
RV2032	1-228-454-00	s	RES, ADJ, METAL 200 [for CCU-700A(J), CCU-700A(UC)]
RV2033	1-228-454-00	s	RES, ADJ, METAL 200
RV2034	1-228-454-00	s	RES, ADJ, METAL 200
S1	1-564-948-21	o	PIN, CONNECTOR 3P
S125	1-564-948-21	o	PIN, CONNECTOR 3P
S126	1-570-857-11	s	SWITCH, SLIDE
S221	1-564-948-21	o	PIN, CONNECTOR 3P
S1101	1-564-948-21	o	PIN, CONNECTOR 3P
S1102	1-564-948-21	o	PIN, CONNECTOR 3P
S1361	1-570-857-11	s	SWITCH, SLIDE
S1362	1-570-857-11	s	SWITCH, SLIDE
S1501	1-570-610-11	s	SWITCH, TOGGLE [for CCU-700AP(CE)]
S1891	1-572-658-21	s	SWITCH, ROTARY
S1892	1-570-611-11	s	SWITCH, TOGGLE [for CCU-700A(J), CCU-700A(UC)]
S1961	1-762-117-11	s	SWITCH, ROTARY
S1962	1-570-610-11	s	SWITCH, TOGGLE
S2031	1-570-857-11	s	SWITCH, SLIDE
S2032	1-570-850-11	s	SWITCH, SLIDE
THP1	1-806-166-00	s	THERMISTOR (POSITIVE)

FRAME

Ref. No. or Q'ty	Part No.	SP	Description
2pcs	1-590-489-11	s	CABLE, FLEXIBLE FLAT (25 CORE)
2pcs	1-750-881-11	s	CONVERTER, COAXIAL CONNECTOR, BNC "SERIAL INPUT RET1/RET2" "SERIAL OUTPUT 2/3"
1pc	1-774-157-11	s	CONVERTER, COAXIAL CONNECTOR "SERIAL OUTPUT 1"
2pcs	1-765-696-11	s	CABLE ASSEMBLY, COAXIAL "RET1-4, REFERANCE, PROMPTER" "R, G, B, DIAG, Y, R-Y, B-Y, SYNC, CHARACTER, WF1,2, PIX1,2, VBS1-3 "
1pc	1-953-610-11	o	HARNESS (SK-19)
CN1F(to IO-103 board)			
	1-562-211-11	o	HOUSING, 3P
	1-562-210-11	o	CONTACT, FEMALE AWG18-22
CN3F(to MB-563 board)			
	1-569-203-11	o	HOUSING, 10P
	1-569-192-11	o	CONTACT, FEMALE AWG22-26
CN11F(to MB-563 board)			
	1-563-121-11	o	CONNECTOR, PS 14P
	1-563-115-11	o	CONTACT, FEMALE AWG25-26
CN16F(to MB-563 board)			
	1-563-124-11	o	CONNECTOR, PS 20P
	1-563-115-11	o	CONTACT, FEMALE AWG25-26
CN17F(to CN-1015 board)			
	1-563-122-11	o	CONNECTOR, PS 16P
	1-563-115-11	o	CONTACT, FEMALE AWG25-26
CN17F(to MB-563 board)			
	1-569-199-11	o	HOUSING, 6P
	1-569-194-11	o	CONTACT, FEMALE AWG24-30
	1-569-192-11	o	CONTACT, FEMALE AWG22-26
CN18F(to CN-1015 board)			
	1-569-199-11	o	HOUSING, 6P
	1-569-194-11	o	CONTACT, FEMALE AWG24-30
CN18F(to CN-1036 board)			
	1-563-129-11	o	CONNECTOR, PS 30P
	1-563-115-11	o	CONTACT, FEMALE AWG25-26
CN18F(to MB-563 board)			
	1-563-119-11	o	CONNECTOR, PS 10P
	1-563-115-11	o	CONTACT, FEMALE AWG25-26
CN19F(to CN-1036 board)			
	1-563-118-11	o	CONNECTOR, PS 8P
	1-563-115-11	o	CONTACT, FEMALE AWG25-26
CN20F(to MB-563 board)			
	1-569-197-11	o	HOUSING, 4P
	1-569-192-11	o	CONTACT, FEMALE AWG22-26
CN21F(to MB-563 board)			
	1-563-117-11	o	CONNECTOR, PS 6P
	1-563-115-11	o	CONTACT, FEMALE AWG25-26
CN22F(to MB-563 board)			
	1-569-199-11	o	HOUSING, 6P
	1-569-194-11	o	CONTACT, FEMALE AWG24-30
CN23F(to MB-563 board)			
	1-563-129-11	o	CONNECTOR, PS 30P
	1-563-115-11	o	CONTACT, FEMALE AWG25-26
CN24F(to MB-563 board)			
	1-569-198-11	o	HOUSING, 5P
	1-569-192-11	o	CONTACT, FEMALE AWG22-26

NOTE : Please see page 1-11 for the parts that are not listed in the parts list.

(FRAME)

Ref. No. or Q'ty	Part No.	SP	Description
CN25F(to MB-563 board)			
	1-563-118-11	o	CONNECTOR, PS 8P
	1-563-115-11	o	CONTACT, FEMALE AWG25-26
CN101	1-565-796-11	s	CONNECTOR, DOUBLE COAXIAL "CAMERA" (FOR CCU-700A:UC)
CN101	1-565-798-12	s	CONNECTOR, DOUBLE COAXIAL "CAMERA" (FOR CCU-700A:J)
CN101	1-560-744-11	s	CONNECTOR, COAXIAL (MALE) "CAMERA" (FOR CCU-700AP)
CN103	1-563-029-21	s	CONNECTOR (RECEPTACLE) 3P FEMALE "RTS IN"
CN102	1-564-971-11	o	CONNECTOR, MULTI 19P MALE "INTERCOM/TALLY/PGM"
CN104	1-563-030-21	s	CONNECTOR (RECEPTACLE) 3P MALE "RTS OUT"
CN105	1-563-030-21	s	CONNECTOR (RECEPTACLE) 3P MALE "MIC OUT"(FOR CCU-700A:UC/CCU-700AP
CN105	1-563-029-21	s	CONNECTOR (RECEPTACLE) 3P FEMALE "MIC OUT 1" (FOR CCU-700A:J)
CN106	1-563-030-21	s	CONNECTOR (RECEPTACLE) 3P MALE "MIC OUT"(FOR CCU-700A:UC/CCU-700AP
CN106	1-563-029-21	s	CONNECTOR (RECEPTACLE) 3P FEMALE "MIC OUT 1" (FOR CCU-700A:J)
CN107	1-561-376-00	s	CONNECTOR (S) 4P FEMALE "WF MODE"
CN115	1-774-157-11	s	CONVERTER, COAXIAL CONNECTOR "COAX"

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POWER BLOCK FRAME FOR A-8273-371-B
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Ref. No.
or Q'ty  Part No.    SP Description

1pc    ⚠ A-8273-371-B s POWER UNIT(RP)
2pcs     1-533-191-11 s HOLDER, FUSE
1pc      1-698-804-11 s MOTOR, DC

F1     ⚠ 1-532-745-11 s FUSE, GLASS TUBE 3.15A 125V
                                       (FOR CCU-700A)
F1     ⚠ 1-576-230-11 s FUSE (H.B.C.) T3.15AH 250V
                                      (FOR CCU-700AP)
F2     ⚠ 1-532-748-11 s FUSE, GLASS TUBE 6.3A 125V
                                       (FOR CCU-700A)
F2     ⚠ 1-576-231-41 s FUSE (H.B.C.) T4.0AH 250V
                                      (FOR CCU-700AP)

1pc      1-959-139-11 o HARNESS (D-50)
1pc      1-959-141-11 o HARNESS (AC)
1pc      1-959-142-11 o HARNESS (FUSE)

HARNESS (INCOM)
J17(to AU-207 board)
         1-562-647-11 o CONNECTOR, 5P
         1-562-643-11 o CONTACT, FEMALE AWG24-30
J21      1-563-159-11 s CONNECTOR, 5P, FEMALE   "INCOM/PGM"

HARNESS (LE)
J23(to PS-481 board)
         1-562-657-11 o CONNECTOR, 15P
         1-652-643-11 o CONTACT, FEMALE AWG24-30
J15(to LE-133 board)
         1-562-659-11 o CONNECTOR, 15P
         1-652-643-11 o CONTACT, FEMALE AWG24-30

HARNESS (CAM POWER SW)
J20(to LE-133 board)
         1-562-645-11 o CONNECTOR, 3P
         1-562-643-11 o CONTACT, FEMALE AWG24-30
S2     ⚠ 1-570-117-41 s SWITCH, SEESAW (AC POWER)

HARNESS (IF1)
J9(to PS-480 board)
         1-562-286-11 o CONNECTOR, 5P
         1-562-210-11 o CONTACT, FEMALE AWG18-22
J12(to PS-481 board)
         1-562-833-11 o CONNECTOR, 7P
         1-562-210-11 o CONTACT, FEMALE AWG18-22

HARNESS (IF2)
J10(to PS-480 board)
         1-561-209-00 o CONNECTOR, 5P
         1-535-245-11 o CONTACT, FEMALE AWG22-28
J13(to PS-481 board)
         1-561-209-00 o CONNECTOR, 5P
         1-535-245-11 o CONTACT, FEMALE AWG22-28

HARNESS (FL)
J14(to PS-481 board)
         1-561-212-11 o CONNECTOR, 10P
         1-535-245-11 o CONTACT, FEMALE AWG22-28
CN4(to FL-246 board)
         1-562-652-11 o CONNECTOR, 10P
         1-562-643-11 o CONTACT, FEMALE AWG24-30
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NOTE : Please see page 1-11 for the parts that are not listed
in the parts list.

POWER BLOCK FRAME FOR A-8273-371-A

Ref. No. or Q'ty	Part No.	SP	Description
1pc	⚠ A-8273-371-A	s	POWER UNIT(RP)
2pcs	1-533-191-11	s	HOLDER, FUSE
1pc	1-955-706-11	o	HARNESS (D-SUB)
B1	1-698-106-11	s	MOTOR, DC BLUSHLESS FAN "DC FAN"
F1	⚠ 1-532-745-11	s	FUSE, GLASS TUBE 3.15A 125V (FOR CCU-700A)
F1	⚠ 1-576-230-11	s	FUSE (H.B.C.) T3.15AH 250V (FOR CCU-700AP)
F2	⚠ 1-532-748-11	s	FUSE, GLASS TUBE 6.3A 125V (FOR CCU-700A)
F2	⚠ 1-576-231-41	s	FUSE (H.B.C.) T4.0AH 250V (FOR CCU-700AP)
CN1F(to AU-209 board)			
	1-580-582-11	o	CONNECTOR, 12P
	1-580-599-11	o	CONTACT, FEMALE AWG26-30
CN2F(to AU-209 board)			
	1-562-647-11	o	CONNECTOR, 5P
	1-562-643-11	o	CONTACT, FEMALE AWG24-30
J3F(to CN-1013 board)			
	1-563-888-11	o	CONNECTOR, 10P
	1-562-210-11	o	CONTACT, FEMALE AWG18-22
J8F(to CN-1013 board)			
	1-562-833-11	o	CONNECTOR, 7P
	1-562-210-11	o	CONTACT, FEMALE AWG18-22
J9F(to PS-356 board)			
	1-562-211-11	o	CONNECTOR, 3P
	1-562-210-11	o	CONTACT, FEMALE AWG18-22
J10F(to CN-1013 board)			
	1-562-657-11	o	CONNECTOR, 15P
	1-562-643-11	o	CONTACT, FEMALE AWG24-30
J11F(to PS-357 board)			
	1-562-657-11	o	CONNECTOR, 15P
	1-562-643-11	o	CONTACT, FEMALE AWG24-30
J12F(to PS-357 board)			
	1-562-657-11	o	CONNECTOR, 15P
	1-562-643-11	o	CONTACT, FEMALE AWG24-30
J13F(to PS-356 board)			
	1-562-657-11	o	CONNECTOR, 15P
	1-562-643-11	o	CONTACT, FEMALE AWG24-30
J14F(to PS-357 board)			
	1-562-657-11	o	CONNECTOR, 15P
	1-562-643-11	o	CONTACT, FEMALE AWG24-30
J15F(to LE-133 board)			
	1-562-657-11	o	CONNECTOR, 15P
	1-562-643-11	o	CONTACT, FEMALE AWG24-30
J18F(to PS-357 board)			
	1-563-124-11	o	CONNECTOR, PS 20P
	1-563-115-11	o	CONTACT, FEMALE AWG25-26
J19F(to PS-357 board)			
	1-563-129-11	o	CONNECTOR, PS 30P
	1-563-115-11	o	CONTACT, FEMALE AWG25-26
J20F(to LE-133 board)			
	1-562-645-11	o	CONNECTOR, 3P

(POWER BLOCK FRAME)

Ref. No. or Q'ty	Part No.	SP	Description
	1-562-643-11	o	CONTACT, FEMALE AWG24-30
J27F(to CN-1013 board)			
	1-562-211-11	o	CONNECTOR, 3P
	1-562-210-11	o	CONTACT, FEMALE AWG18-22
J1	⚠ 1-251-148-21	s	INLET, AC (3P) "AC IN"
J21	1-563-159-11	s	CONNECTOR, 5P, FEMALE "INCOM/PGM"
S1	⚠ 1-570-117-41	s	SWITCH, SEESAW (AC POWER)
S2	⚠ 1-570-117-41	s	SWITCH, SEESAW (AC POWER)
S3	⚠ 1-570-173-11	s	SELECTOR, POWER VOLTAGE
CN20	1-562-945-11	o	CONNECTOR, MULTI 50P FEMALE
	1-562-580-21	o	CONTACT, FEMALE AWG24-28

NOTE : Please see page 1-11 for the parts that are not listed in the parts list.

1-4. Supplied Accessories

[CCU-700A/CCU-700AP]

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8278-054-A	o	REMOTE INDICATOR ASSY
1pc	1-506-767-11	s	CONNECTOR, ROUND 19P, FEMALE
1pc	⚠ 1-532-745-11	s	FUSE, GLASS TUBE 3.15A 125V (FOR CCU-700A)
1pc	⚠ 1-532-748-11	s	FUSE, GLASS TUBE 6.3A 125V (FOR CCU-700A)
1pc	⚠ 1-576-230-11	s	FUSE (H.B.C.) T3.15AH 250V (FOR CCU-700AP)
1pc	⚠ 1-576-231-41	s	FUSE (H.B.C.) T4.0AH 250V (FOR CCU-700AP)
1pc	⚠ 1-576-225-41	s	FUSE (H.B.C.)
1pc	⚠ 1-575-181-11	s	CORD, POWER (FOR CCU-700A:J)
1pc	⚠ 1-551-812-11	s	CORD, POWER (FOR CCU-700A:UC)
1pc	⚠ 1-590-910-11	s	CORD SET, POWER (FOR CCU-700AP)
1pc	1-560-155-00	s	CONNECTOR, 4P MALE
1pc	1-750-686-11	s	CONNECTOR, CONVERSION (3P-2P) (FOR CCU-700A:J)
1pc	2-990-242-01	s	HOLDER (B), PLUG (FOR CCU-700A)
1pc	3-170-078-01	s	HOLDER (B), PLUG (FOR CCU-700AP)

[BKP-7312]

Ref. No. or Q'ty	Part No.	SP	Description
1pc	X-3678-532-1	o	ASSY, CASE(A) SHIELD
1pc	X-3678-533-1	o	ASSY, CASE(B) SHIELD
1pc	1-500-082-11	s	CLAMP, SLEEVE FERRITE
2pcs	1-765-696-11	s	CALBE ASSEMBLY, COAXIAL
1pc	1-955-432-11	o	HARNESS, SUB (DA1)
1pc	1-955-433-11	o	HARNESS, SUB (DA2)
4pcs	3-675-725-01	o	SPACER, PC BOARD
1pc	3-694-267-02	o	LABEL, RET
4pcs	7-682-902-01	s	SCREW +PWH 2.6X4

1-5. Optional Fixtures

Part No.	SP	Description
A-8314-124-A	o	EXTENSION BOARD, EX-439
J-6390-880-A	o	CCU-370 CHECKER

NOTE : Please see page 1-11 for the parts that are not listed in the parts list.

Section 2
Semiconductor Pin Assignments

ここに記載されている半導体は，それぞれの機能を等価的に表したものです。　なお，互換性のない型名を併記していることがありますので，部品を交換するときは，Spare Partsの章を参照してください。
等価回路はＩＣメーカーのデータブックに従いました。

Semiconductors of which functions are equivalent are described here. For parts replacement, refer to the section of Spare Parts in this manual. The circuit diagram of each IC is obtained from the IC data book published by the manufacturer.

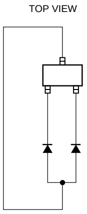
Diode	PAGE
1S2836	2-2
1SS119	2-2
1SS184	2-2
1SS226	2-2
1SS269	2-2
1SV172	2-2
1T363	2-2
1T363A	2-2
HLMP-6500	2-2
HSM88AS	2-2
KV1470	2-2
LM404BIM3	2-2
RD ? ?M-B ?	2-2
RD ? ?M-B	2-2
RD ? ?MB	2-2
UZM5.1B	2-2

Transistor	PAGE
2SA1162G	2-2
2SA1226	2-2
2SA1462	2-2
2SB798	2-2
2SC1009A	2-2
2SC1623	2-2
2SC2714Y	2-2
2SC2757	2-2
2SD1623	2-2
2SD596	2-2
2SK1332	2-2
2SK508	2-2
2SK620	2-2
2SK94-X4	2-2
DTA144EU	2-2
DTC143XK	2-2
DTC144EU	2-2
FMP1	2-2
PS2604	2-2
SGM2006M	2-2
XN6435	2-2
XN6501	2-2
XN6534	2-2

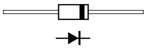
IC	PAGE
CLC505AJE	2-3
CX22017	2-3
CX7968A	2-4
CX7969	2-4
CXA1432M	2-3
CXD1216M	2-6
CXD1217M	2-6
CXD8072Q	2-8
CXD8344AQ	2-8
CXK581000ATM-10LL	2-9
E28F010-120	2-9
HD14053BFP	2-9
HD6475328F10	2-10
HN58C257T	2-11
LA1235	2-11
LM1881M	2-11
LM339NS	2-12
M51348AFP	2-12
M52313SP	2-12
M62021FP	2-12
M62352GP	2-13
MAX238CWG	2-13
MC14001BF	2-13
MC14011BF	2-13
MC14020BF	2-13
MC14040BF	2-14
MC14046BF	2-14
MC14050BF	2-14
MC14051BF	2-14
MC14520BF	2-14
MC14528BF	2-15
MC14538BF	2-15
MC1495M	2-15
MC1496M	2-15
MC74HC163AF	2-15
MC74HC4053F	2-16
MSM82C55A-2GS	2-16
NJM1496M	2-15
NJM2043M-D	2-16
NJM4556M	2-16
NJM4560M	2-16
NJM567M	2-16
NJM78L05UA	2-17
NJM78L09UA	2-17
PC410	2-17

IC	PAGE
SC7S04F	2-17
SC7S32F	2-17
SN74HC00ANS	2-17
SN74HC04ANS	2-17
SN74HC08ANS	2-17
SN74HC132ANS	2-18
SN74HC153ANS	2-18
SN74HC158ANS	2-18
SN74HC165ANS	2-18
SN74HC175ANS	2-18
SN74HC27AN	2-19
SN74HC32ANS	2-19
SN74HC4040ANS	2-19
SN74LS123NS	2-19
SN74LS221NS	2-19
SN75158PS	2-19
TA8129Z	2-20
TC4S30F	2-20
TC4S69F	2-17
TC4W53F	2-20
TC74HC165AF	2-18
TC74HC221AF	2-20
TC74HC4051AF	2-20
TC7S08F	2-20
TC7S66F	2-20
TC7W02F	2-21
TC7W04F	2-21
TC7W04FU	2-21
TC7W08F	2-21
TL062CPS	2-21
TL064CNS	2-21
TL082M	2-21
TL084CNS	2-21
TLC272CPS	2-21
TLC274CNS	2-21
TMP82C265BF-2	2-22
TMS27C010A-10JL	2-23
UPA101G	2-23
UPC311G2	2-23
UPC319G2	2-23
UPC393G2	2-23
UPC4558G2	2-16
UPD6453GT-610	2-24
UPD71051GB-103B4	2-25

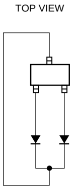
DIODE



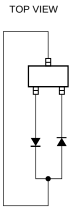
1S2836
1SS269



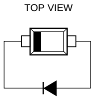
1SS119



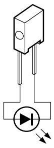
1SS184



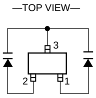
1SS226
1SV172
HSM88AS



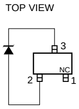
1T363
1T363A



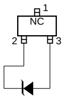
HLMP-6500;GREEN


—TOP VIEW—
3
2
1

KV1470

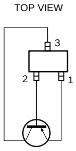

TOP VIEW
3
NC
2
1

RD ? ?M-B
RD ? ?MB
RD ? ?M-B ?
UZM5.1B

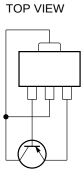


LM4040BIM3(NS)

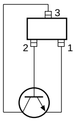
TRANSISTOR


TOP VIEW
3
2
1

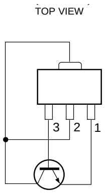
2SA1162G
2SA1226
2SA1462



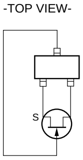
2SB798



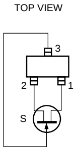
2SC1009A
2SC1623
2SC2714Y
2SC2757
2SD596


TOP VIEW
3
2
1

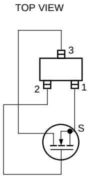
2SD1623



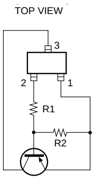
2SK1332


TOP VIEW
3
2
1
S

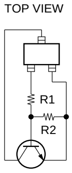
2SK508
2SK94-X4


TOP VIEW
3
2
1
S

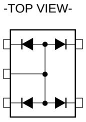
2SK620


TOP VIEW
3
2
1
R1
R2

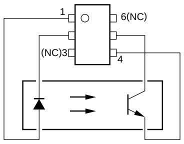
DTA144EU
(R1=47K,
R2=47K)


TOP VIEW
R1
R2

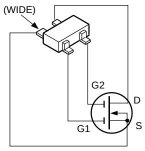
DTC143XK
(R1=4.7K, R2=10K)
DTC144EU
(R1=47K, R2=47K)



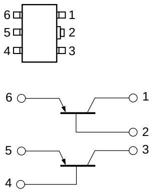
FMP1


-TOP VIEW-
1
6(NC)
(NC)3
4

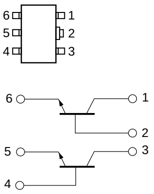
PS2604


(WIDE)
G2
D
G1
S

SGM2006M


TOP VIEW
6
5
4
1
2
3

XN6435


TOP VIEW
6
5
4
1
2
3

XN6501
XN6534

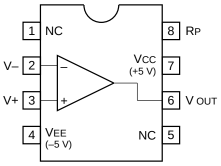
http://getMANUAL.com

IC

CLC505AJE(COMLINEAR)FLAT PACKAGE

OPERATIONAL AMPLIFIER

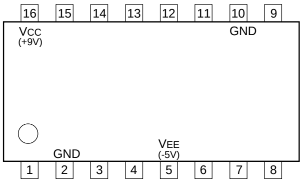
— TOP VIEW —

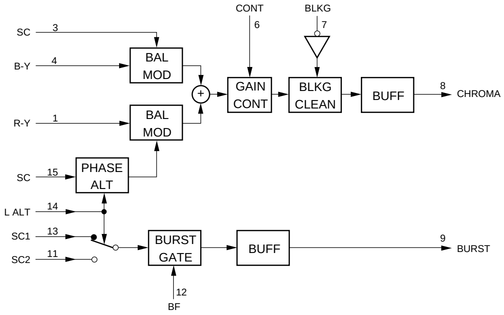

1 NC
V– 2
V+ 3
4 VEE (–5 V)
8 RP
VCC (+5 V) 7
6 V OUT
NC 5
–
+

CX22017(SONY)

VIDEO SIGNAL PROCESSOR

-TOP VIEW-

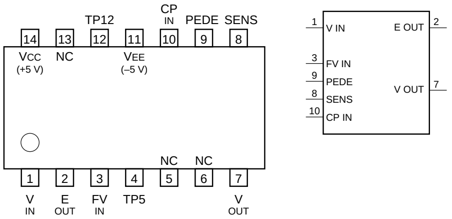

16 15 14 13 12 11 10 9
VCC (+9V)
GND
GND
VEE (-5V)
1 2 3 4 5 6 7 8


SC 3
B-Y 4
R-Y 1
BAL MOD
BAL MOD
+
CONT 6
GAIN CONT
BLKG 7
BLKG CLEAN
BUFF
8 CHROMA
SC 15
PHASE ALT
L ALT 14
SC1 13
SC2 11
BURST GATE
12 BF
BUFF
9 BURST

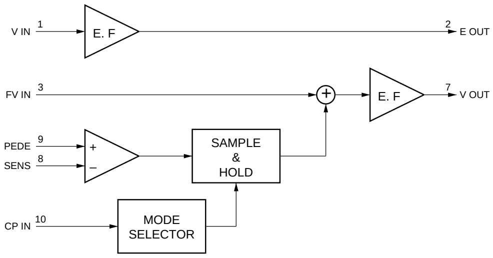
CXA1432M(SONY)FLAT PACKAGE

VIDEO SIGNAL CLAMPER

— TOP VIEW —


TP12
CP IN
PEDE SENS
14 13 12 11 10 9 8
VCC (+5 V)
NC
VEE (–5 V)
NC NC
1 2 3 4 5 6 7
V IN
E OUT
FV IN
TP5
V OUT
1 V IN
E OUT 2
3 FV IN
9 PEDE
8 SENS
10 CP IN
V OUT 7

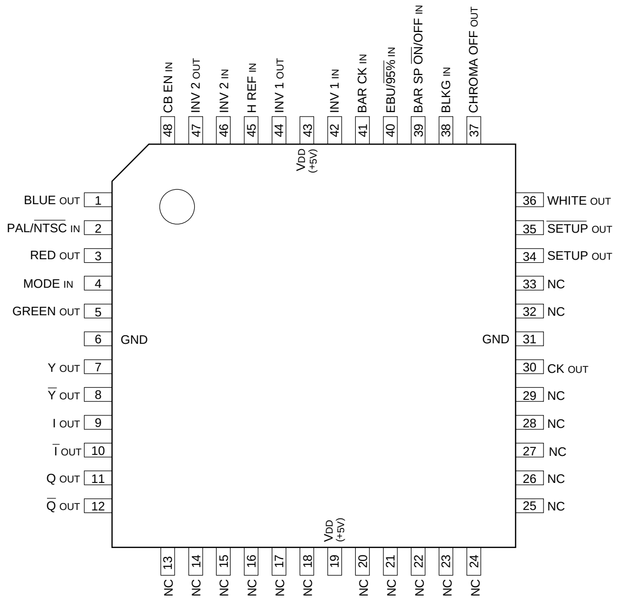
CP IN ; CLAMP PULSE INPUT
E OUT ; BUFFER AMP OUTPUT
FV IN ; FLOATING VIDEO SIGNAL INPUT
PEDE ; CLAMP LEVEL DC INPUT
SENS ; CLAMP POINT SIGNAL INPUT
TP5, TP12 ; FOR TEST
V IN ; VIDEO SIGNAL INPUT
V OUT ; VIDEO SIGNAL OUTPUT

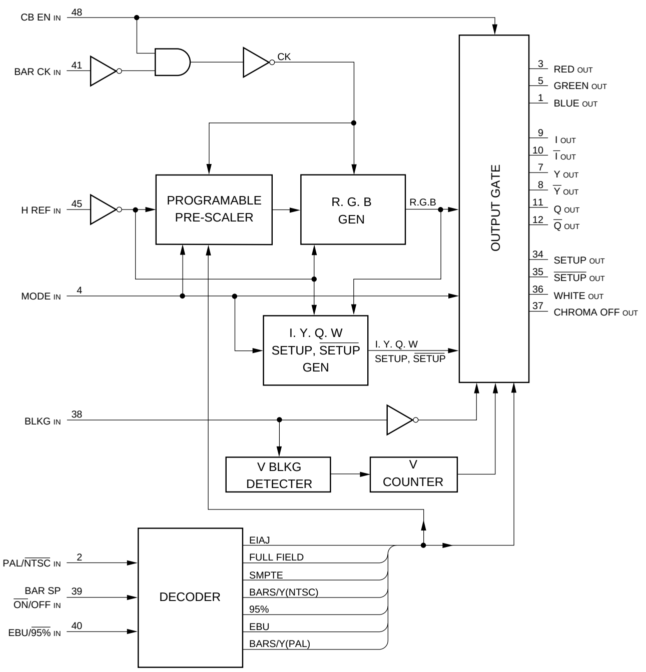

V IN 1
E. F
2 E OUT
FV IN 3
+
E. F
7 V OUT
PEDE 9
SENS 8
+
–
SAMPLE & HOLD
CP IN 10
MODE SELECTOR

CX7968A(SONY)

C-MOS COLOR BAR GENERATOR

-TOP VIEW-


48 CB EN IN
47 INV 2 OUT
46 INV 2 IN
45 H REF IN
44 INV 1 OUT
43 VDD (+5V)
42 INV 1 IN
41 BAR CK IN
40 EBU/$\overline{95\%}$ IN
39 BAR SP $\overline{ON}$/OFF IN
38 BLKG IN
37 CHROMA OFF OUT
BLUE OUT 1
PAL/$\overline{NTSC}$ IN 2
RED OUT 3
MODE IN 4
GREEN OUT 5
6 GND
Y OUT 7
$\overline{Y}$ OUT 8
I OUT 9
$\overline{I}$ OUT 10
Q OUT 11
$\overline{Q}$ OUT 12
36 WHITE OUT
35 $\overline{SETUP}$ OUT
34 SETUP OUT
33 NC
32 NC
GND 31
30 CK OUT
29 NC
28 NC
27 NC
26 NC
25 NC
NC 13
NC 14
NC 15
NC 16
NC 17
NC 18
19 VDD (+5V)
NC 20
NC 21
NC 22
NC 23
NC 24

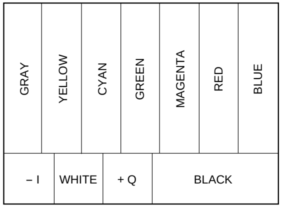

CB EN IN 48
BAR CK IN 41
CK
H REF IN 45
PROGRAMABLE PRE-SCALER
R. G. B GEN
R.G.B
OUTPUT GATE
MODE IN 4
I. Y. Q. W SETUP, $\overline{SETUP}$ GEN
I. Y. Q. W SETUP, $\overline{SETUP}$
BLKG IN 38
V BLKG DETECTER
V COUNTER
PAL/$\overline{NTSC}$ IN 2
BAR SP $\overline{ON}$/OFF IN 39
EBU/$\overline{95\%}$ IN 40
DECODER
EIAJ
FULL FIELD
SMPTE
BARS/Y(NTSC)
95%
EBU
BARS/Y(PAL)
3 RED OUT
5 GREEN OUT
1 BLUE OUT
9 I OUT
10 $\overline{I}$ OUT
7 Y OUT
8 $\overline{Y}$ OUT
11 Q OUT
12 $\overline{Q}$ OUT
34 SETUP OUT
35 $\overline{SETUP}$ OUT
36 WHITE OUT
37 CHROMA OFF OUT

INPUT				FUNCTION
PAL/$\overline{NTSC}$	MODE	EBU/$\overline{95\%}$	BAR SP	
0	0	0	0	EIAJ COLOR BAR
0	0	0	1	FULL FIELD COLOR BAR
0	0	1	0	INHIBIT
0	0	1	1	INHIBIT
0	1	0	0	EIAJ COLOR BAR
0	1	0	1	FULL FIELD COLOR BAR
0	1	1	0	SMPTE COLOR BAR
0	1	1	1	COLOR BAR + Y BAR
1	0	0	0	95% COLOR BAR
1	0	0	1	INHIBIT
1	0	1	0	EBU COLOR BAR
1	0	1	1	INHIBIT
1	1	0	0	95% COLOR BAR
1	1	0	1	COLOR BAR + Y BAR
1	1	1	0	EBU COLOR BAR
1	1	1	1	INHIBIT

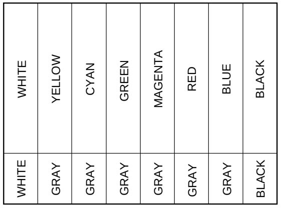
0 ; LOW LEVEL
1 ; HIGH LEVEL

○ COLOR BAR PATTERN

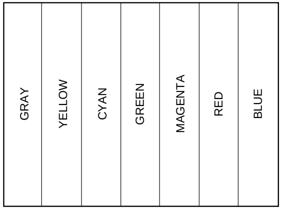
EIAJ COLOR BAR (NTSC)


GRAY
YELLOW
CYAN
GREEN
MAGENTA
RED
BLUE
− I
WHITE
+ Q
BLACK

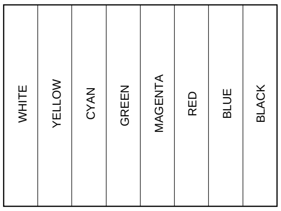
COLOR BAR + Y BAR (PAL) or (NTSC)


WHITE
YELLOW
CYAN
GREEN
MAGENTA
RED
BLUE
BLACK
WHITE
GRAY
GRAY
GRAY
GRAY
GRAY
GRAY
BLACK

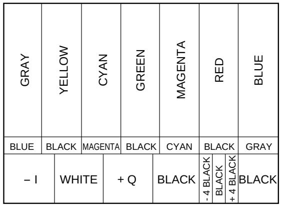
FULL FIELD COLOR BAR (NTSC)


GRAY
YELLOW
CYAN
GREEN
MAGENTA
RED
BLUE

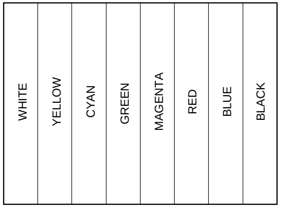
95% COLOR BAR (PAL)


WHITE
YELLOW
CYAN
GREEN
MAGENTA
RED
BLUE
BLACK

SMPTE COLOR BAR (NTSC)


GRAY
YELLOW
CYAN
GREEN
MAGENTA
RED
BLUE
BLUE
BLACK
MAGENTA
BLACK
CYAN
BLACK
GRAY
− I
WHITE
+ Q
BLACK
- 4 BLACK
BLACK
+ 4 BLACK
BLACK

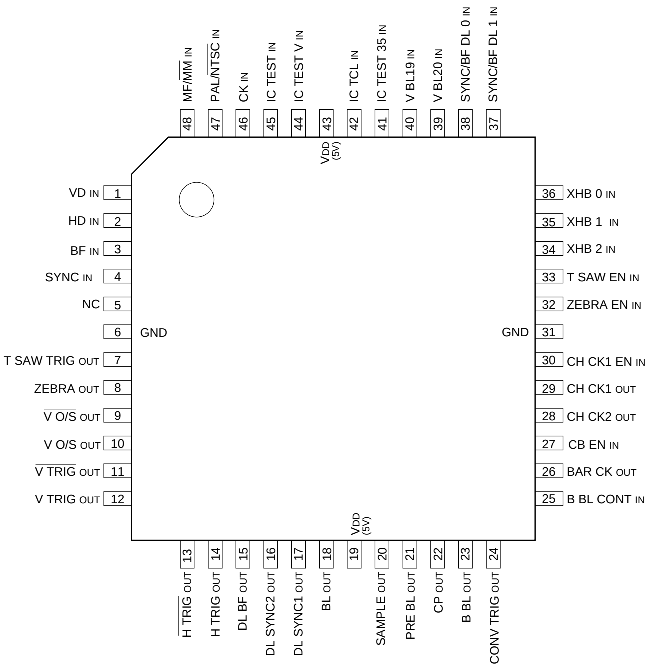
EBU COLOR BAR (PAL)


WHITE
YELLOW
CYAN
GREEN
MAGENTA
RED
BLUE
BLACK

CX7969(SONY)

C-MOS PULSE GENERATOR

-TOP VIEW-


48 MF/$\overline{MM}$ IN
47 PAL/$\overline{NTSC}$ IN
46 CK IN
45 IC TEST IN
44 IC TEST V IN
43 VDD (5V)
42 IC TCL IN
41 IC TEST 35 IN
40 V BL19 IN
39 V BL20 IN
38 SYNC/BF DL 0 IN
37 SYNC/BF DL 1 IN
VD IN 1
HD IN 2
BF IN 3
SYNC IN 4
NC 5
6 GND
T SAW TRIG OUT 7
ZEBRA OUT 8
$\overline{V O/S}$ OUT 9
V O/S OUT 10
$\overline{V TRIG}$ OUT 11
V TRIG OUT 12
36 XHB 0 IN
35 XHB 1 IN
34 XHB 2 IN
33 T SAW EN IN
32 ZEBRA EN IN
GND 31
30 CH CK1 EN IN
29 CH CK1 OUT
28 CH CK2 OUT
27 CB EN IN
26 BAR CK OUT
25 B BL CONT IN
13 $\overline{H TRIG}$ OUT
14 H TRIG OUT
15 DL BF OUT
16 DL SYNC2 OUT
17 DL SYNC1 OUT
18 BL OUT
19 VDD (5V)
20 SAMPLE OUT
21 PRE BL OUT
22 CP OUT
23 B BL OUT
24 CONV TRIG OUT

1. SYSTEM DESIGNATION

INPUT	SYSTEM
PAL/NTSC IN	
1	PAL, SECAM
0	NTSC, PALM

2. TYPE OF TUBE

INPUT	FUNCTION
MF/MM IN	
1	MAG-STA TUBE
0	MAG-MAG TUBE

3. V BLKG WIDTH (NTSC ONLY)

INPUT		V BLKG WIDTH
V BL 19	V BL 20	
1	X	19H
0	1	20H
0	0	21H

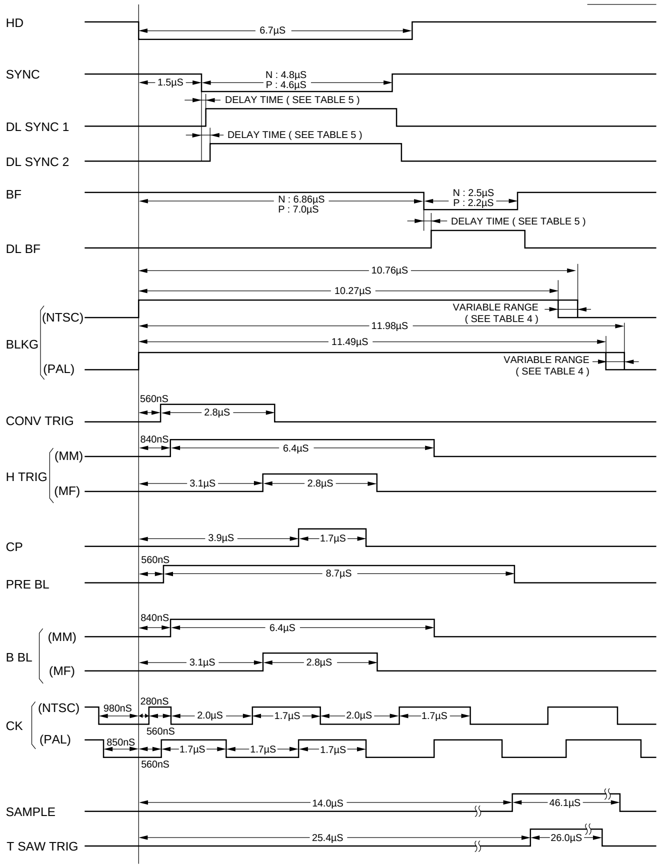
4. H BLKG WIDTH

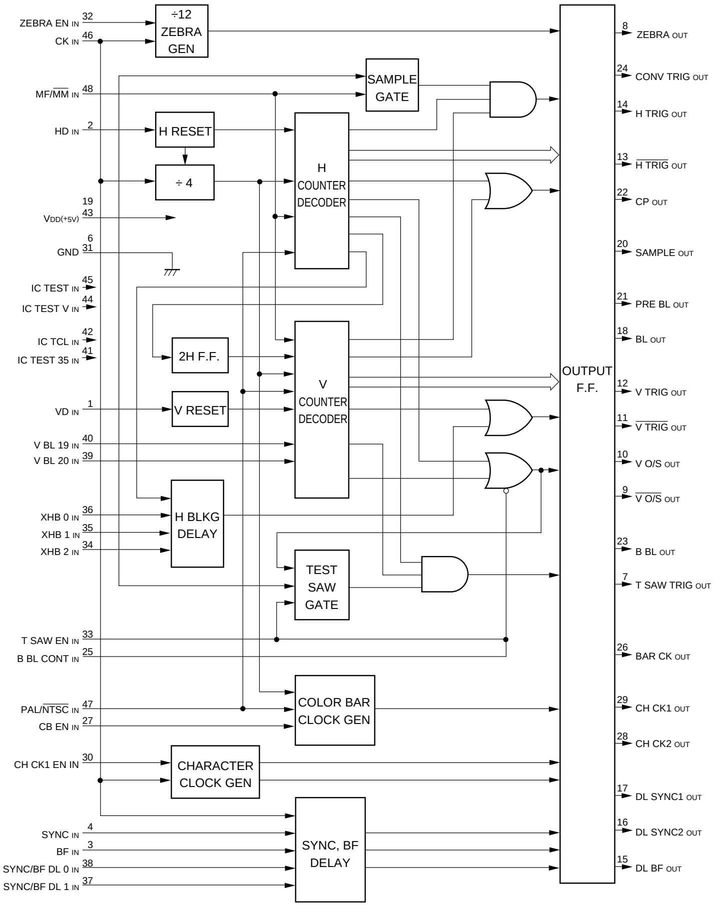
INPUT			BLKG WIDTH (µS)	
XHB2	XHB1	XHB0	NTSC	PAL
1	1	1	10.27	11.49
1	1	0	10.34	11.56
1	0	1	10.41	11.63
1	0	0	10.48	11.70
0	1	1	10.55	11.77
0	1	0	10.62	11.84
0	0	1	10.69	11.91
0	0	0	10.76	11.98

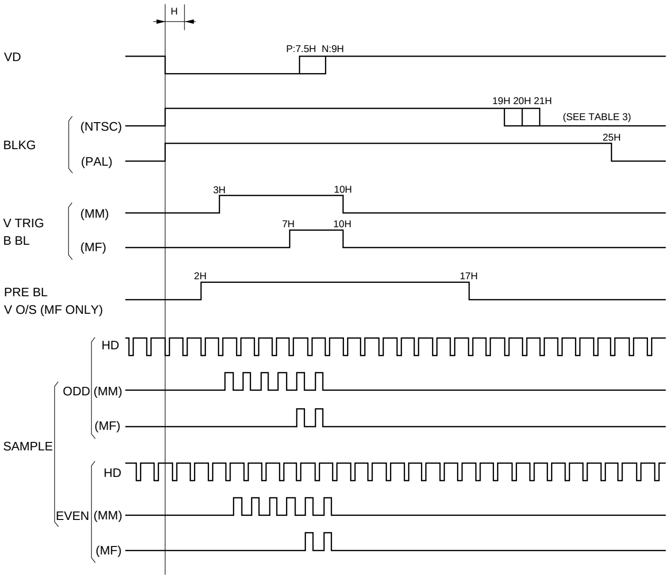
5. DELAY TIME

INPUT		DELAY TIME (nS)		
SYNC/BF DL1	SYNC/BF DL2	DL SYNC 1	DL SYNC 2	DL BF
1	1	140	210	140
1	0	210	280	210
0	1	630	700	630
0	0	700	770	700

1 ; HIGH LEVEL
0 ; LOW LEVEL
X ; DON'T CARE


HD
6.7µS
SYNC
1.5µS
N : 4.8µS
P : 4.6µS
DELAY TIME (SEE TABLE 5)
DL SYNC 1
DELAY TIME (SEE TABLE 5)
DL SYNC 2
BF
N : 6.86µS
P : 7.0µS
N : 2.5µS
P : 2.2µS
DELAY TIME (SEE TABLE 5)
DL BF
10.76µS
10.27µS
VARIABLE RANGE
(SEE TABLE 4)
(NTSC)
BLKG
11.98µS
11.49µS
VARIABLE RANGE
(SEE TABLE 4)
(PAL)
560nS
2.8µS
CONV TRIG
840nS
6.4µS
(MM)
H TRIG
3.1µS
2.8µS
(MF)
CP
3.9µS
1.7µS
560nS
8.7µS
PRE BL
840nS
6.4µS
(MM)
B BL
3.1µS
2.8µS
(MF)
(NTSC)
980nS
280nS
2.0µS
1.7µS
2.0µS
1.7µS
CK
560nS
(PAL)
850nS
1.7µS
1.7µS
1.7µS
560nS
SAMPLE
14.0µS
46.1µS
T SAW TRIG
25.4µS
26.0µS

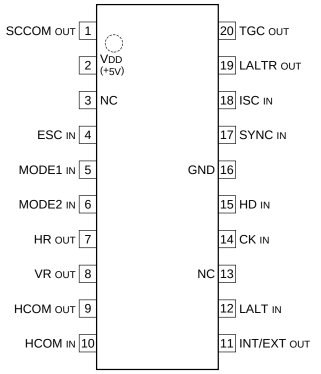

ZEBRA EN IN 32
CK IN 46
÷12
ZEBRA
GEN
MF/MM IN 48
SAMPLE
GATE
HD IN 2
H RESET
÷ 4
H
COUNTER
DECODER
VDD(+5V) 19 43
GND 6 31
IC TEST IN 45
IC TEST V IN 44
IC TCL IN 42
IC TEST 35 IN 41
2H F.F.
VD IN 1
V RESET
V
COUNTER
DECODER
V BL 19 IN 40
V BL 20 IN 39
XHB 0 IN 36
XHB 1 IN 35
XHB 2 IN 34
H BLKG
DELAY
TEST
SAW
GATE
T SAW EN IN 33
B BL CONT IN 25
PAL/NTSC IN 47
CB EN IN 27
COLOR BAR
CLOCK GEN
CH CK1 EN IN 30
CHARACTER
CLOCK GEN
SYNC IN 4
BF IN 3
SYNC/BF DL 0 IN 38
SYNC/BF DL 1 IN 37
SYNC, BF
DELAY
OUTPUT
F.F.
8 ZEBRA OUT
24 CONV TRIG OUT
14 H TRIG OUT
13 H TRIG OUT
22 CP OUT
20 SAMPLE OUT
21 PRE BL OUT
18 BL OUT
12 V TRIG OUT
11 V TRIG OUT
10 V O/S OUT
9 V O/S OUT
23 B BL OUT
7 T SAW TRIG OUT
26 BAR CK OUT
29 CH CK1 OUT
28 CH CK2 OUT
17 DL SYNC1 OUT
16 DL SYNC2 OUT
15 DL BF OUT

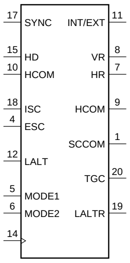

H
VD
P:7.5H N:9H
19H 20H 21H
(SEE TABLE 3)
(NTSC)
BLKG
25H
(PAL)
3H
10H
V TRIG
B BL
(MM)
7H
10H
(MF)
2H
17H
PRE BL
V O/S (MF ONLY)
HD
ODD (MM)
(MF)
SAMPLE
HD
EVEN (MM)
(MF)

CXD1216M(SONY)FLAT PACKAGE

C-MOS GENLOCK DRIVER

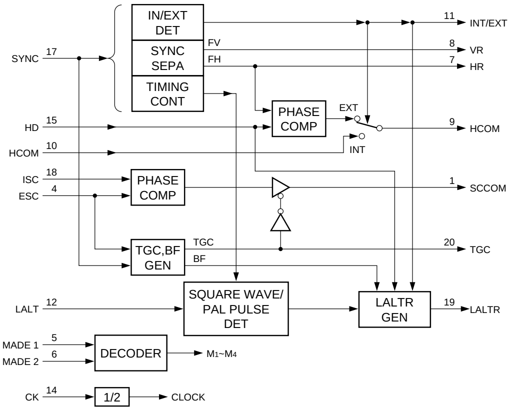
-TOP VIEW-


SCCOM OUT 1
2 VDD (+5V)
3 NC
ESC IN 4
MODE1 IN 5
MODE2 IN 6
HR OUT 7
VR OUT 8
HCOM OUT 9
HCOM IN 10
20 TGC OUT
19 LALTR OUT
18 ISC IN
17 SYNC IN
GND 16
15 HD IN
14 CK IN
NC 13
12 LALT IN
11 INT/EXT OUT


17 SYNC
INT/EXT 11
15 HD
10 HCOM
VR 8
HR 7
18 ISC
4 ESC
HCOM 9
SCCOM 1
12 LALT
TGC 20
5 MODE1
6 MODE2
LALTR 19
14

INPUT		MODE	SYSTEM
MODE1	MODE2		
0	0	M1	PAL-VBS
1	0	M2	PALM-VBS
0	1	M3	PAL,SECAM-VS/SC/LALT
1	1	M4	NTSC-VBS,NTSC-VS/SC PALM-VS/SC/LALT

0 ; LOW LEVEL
1 ; HIGH LEVEL


SYNC 17
IN/EXT DET
SYNC SEPA
TIMING CONT
FV
FH
11 INT/EXT
8 VR
7 HR
HD 15
HCOM 10
PHASE COMP
EXT
INT
9 HCOM
ISC 18
ESC 4
PHASE COMP
1 SCCOM
TGC,BF GEN
TGC
BF
20 TGC
LALT 12
SQUARE WAVE/ PAL PULSE DET
LALTR GEN
19 LALTR
MADE 1 5
MADE 2 6
DECODER
M1~M4
CK 14
1/2
CLOCK

INPUT

CK	;	4fsc CLOCK INPUT
ESC	;	SC/COLOR BURST
HCOM	;	PHASE COMPARATE FROM CXD1217
HD	;	H DRIVE FROM CXD1217
ISC	;	SUBCARRIER FROM CXD1217
LALT	;	LALT FROM REFERENCE SIGNAL GENERATOR
MODE1,2	;	SYSTEM SELECT
SYNC	;	SYNC FROM REFERENCE SIGNAL GENERATOR

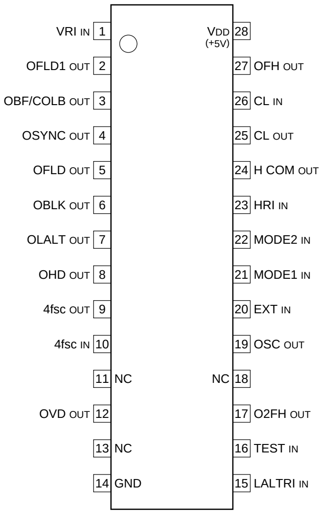
OUTPUT

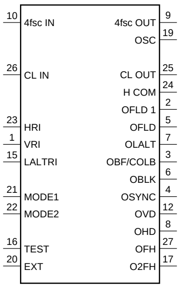
HCOM	;	PHASE COMPARATOR HR WITH HD
HR	;	f_H OF SYNC SEPARATE
INT/EXT	;	INTERNAL/EXTERNAL SPECIFIED
LALTR	;	LINE CHANGE RESET
SCCOM	;	PHASE COMPARATOR ESC WITH ISC
TGC	;	TRISTATE CONTROL
VR	;	f_V OF SYNC SEPARATE

CXD1217M(SONY) FLAT PAKAGE

C-MOS SYNC GENERATOR

-TOP VIEW-

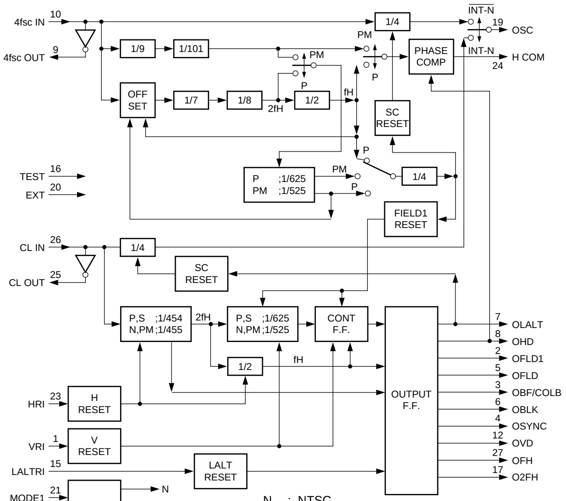

VRI IN 1
OFLD1 OUT 2
OBF/COLB OUT 3
OSYNC OUT 4
OFLD OUT 5
OBLK OUT 6
OLALT OUT 7
OHD OUT 8
4fsc OUT 9
4fsc IN 10
11 NC
OVD OUT 12
13 NC
14 GND
VDD (+5V) 28
27 OFH OUT
26 CL IN
25 CL OUT
24 H COM OUT
23 HRI IN
22 MODE2 IN
21 MODE1 IN
20 EXT IN
19 OSC OUT
NC 18
17 O2FH OUT
16 TEST IN
15 LALTRI IN


10 4fsc IN
4fsc OUT 9
OSC 19
26 CL IN
CL OUT 25
H COM 24
OFLD 1 2
23 HRI
OFLD 5
1 VRI
OLALT 7
15 LALTRI
OBF/COLB 3
OBLK 6
21 MODE1
OSYNC 4
22 MODE2
OVD 12
OHD 8
16 TEST
OFH 27
20 EXT
O2FH 17

SYSTEM	4fsc	CLOCK
NTSC	$910f_H$	$910f_H$
PAL	$1135f_H+2f_V$	$908f_H$
PALM	$909f_H$	$910f_H$
SECAM	—	$908f_H$

INPUT		SYSTEM
MODE1	MODE2	
0	0	NTSC
0	1	SECAM
1	0	PALM
1	1	PAL

0 ; LOW LEVEL
1 ; HIGH LEVEL


4fsc IN 10
4fsc OUT 9
1/9
1/101
1/4
PM
P
INT-N
19 OSC
PHASE COMP
INT-N
24 H COM
OFF SET
1/7
1/8
2fH
1/2
fH
SC RESET
P
PM
1/4
P ;1/625
PM ;1/525
TEST 16
EXT 20
FIELD1 RESET
CL IN 26
CL OUT 25
1/4
SC RESET
P,S ;1/454
N,PM ;1/455
2fH
P,S ;1/625
N,PM ;1/525
CONT F.F.
1/2
fH
OUTPUT F.F.
HRI 23
H RESET
VRI 1
V RESET
LALTRI 15
LALT RESET
MODE1 21
MODE2 22
DECODE
N
P
PM
S
7 OLALT
8 OHD
2 OFLD1
5 OFLD
3 OBF/COLB
6 OBLK
4 OSYNC
12 OVD
27 OFH
17 O2FH

N ; NTSC
P ; PAL
PM ; PALM
S ; SECAM

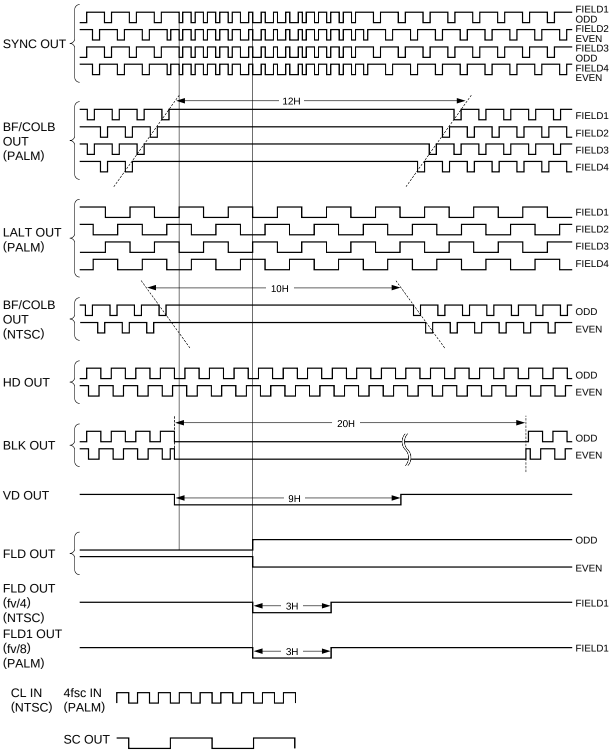
INPUT

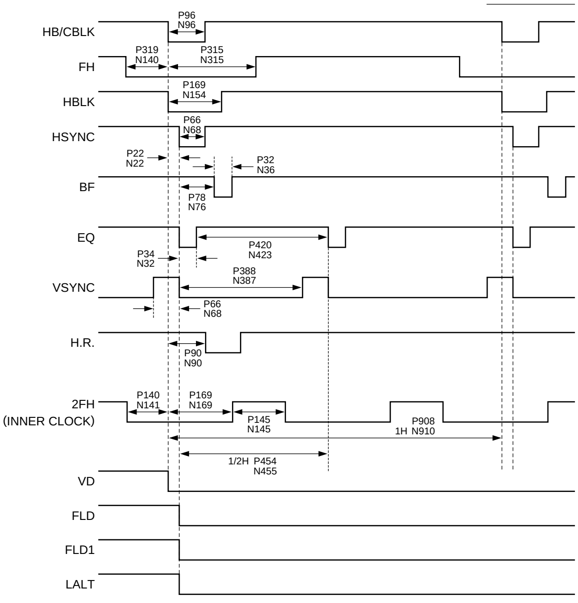
4fSC IN	;	4fSC INPUT
CL IN	;	CLOCK INPUT
EXT	;	SYNC MODE SELECT (L ; INTERNAL/H ; EXTERNAL)
HRI	;	H RESET
LALTRI	;	LINE CHANGE RESET
MODE 1,2	;	SYSTEM SELECT
VRI	;	V RESET

OUTPUT

4fSC OUT	;	4fSC OUTPUT
CL OUT	;	CLOCK OUTPUT
H COM	;	PHASE COMPARATOR
O2fH	;	2fH OUTPUT
OBF/COLB	;	BURST FLAG/COLOR BLANKING
OBLK	;	COMPOSITE BLANKING
OFH	;	H FREQUENCE
OFLD	;	EVEN,ODD
OFLD1	;	FIELD1
OHD	;	H DRIVE
OLALT	;	LINE CHANGE
OSC	;	SUB CARRIER
OSYNC	;	COMPOSITE SYNC
OVD	;	V DRIVE

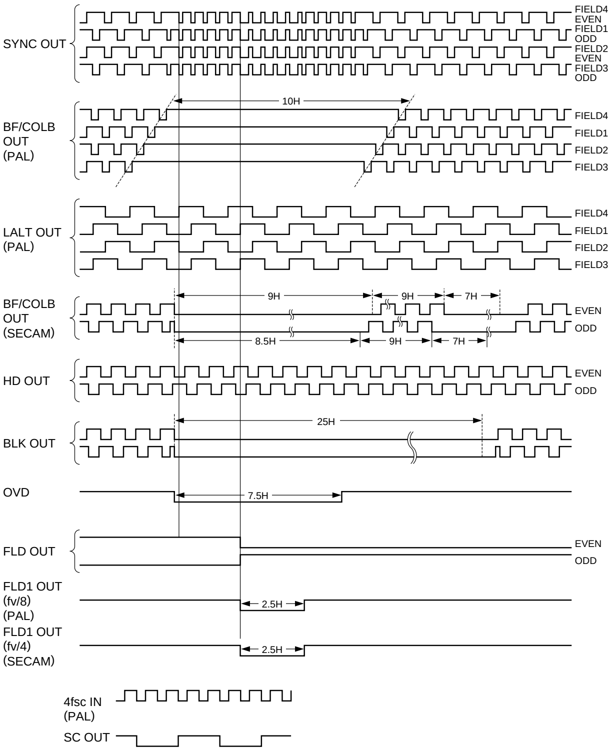
(NTSC,PALM)


SYNC OUT
FIELD1 ODD
FIELD2 EVEN
FIELD3 ODD
FIELD4 EVEN
BF/COLB OUT (PALM)
12H
FIELD1
FIELD2
FIELD3
FIELD4
LALT OUT (PALM)
FIELD1
FIELD2
FIELD3
FIELD4
BF/COLB OUT (NTSC)
10H
ODD
EVEN
HD OUT
ODD
EVEN
BLK OUT
20H
ODD
EVEN
VD OUT
9H
FLD OUT
ODD
EVEN
FLD OUT (fv/4) (NTSC)
3H
FIELD1
FLD1 OUT (fv/8) (PALM)
3H
FIELD1
CL IN (NTSC)
4fsc IN (PALM)
SC OUT


HB/CBLK
P96 N96
FH
P319 N140
P315 N315
HBLK
P169 N154
HSYNC
P66 N68
P22 N22
P32 N36
BF
P78 N76
EQ
P420 N423
P34 N32
VSYNC
P388 N387
P66 N68
H.R.
P90 N90
2FH (INNER CLOCK)
P140 N141
P169 N169
P145 N145
P908 1H N910
1/2H P454 N455
VD
FLD
FLD1
LALT

P : PAL,SECAM
N : NTSC,PALM

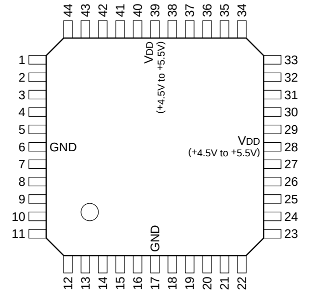
(PAL,SECAM)


SYNC OUT
FIELD4 EVEN
FIELD1 ODD
FIELD2 EVEN
FIELD3 ODD
BF/COLB OUT (PAL)
10H
FIELD4
FIELD1
FIELD2
FIELD3
LALT OUT (PAL)
FIELD4
FIELD1
FIELD2
FIELD3
BF/COLB OUT (SECAM)
9H
9H
7H
8.5H
9H
7H
EVEN
ODD
HD OUT
EVEN
ODD
BLK OUT
25H
OVD
7.5H
FLD OUT
EVEN
ODD
FLD1 OUT (fv/8) (PAL)
2.5H
FLD1 OUT (fv/4) (SECAM)
2.5H
4fsc IN (PAL)
SC OUT

CXD8072Q(SONY)FLAT PACKAGE

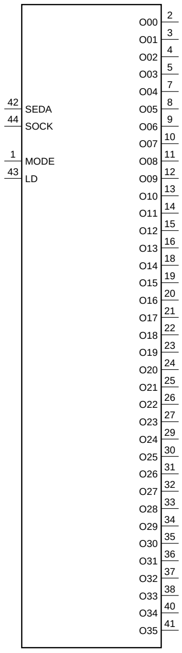
C-MOS SERIAL TO PARALLEL CONVERTER

-TOP VIEW-

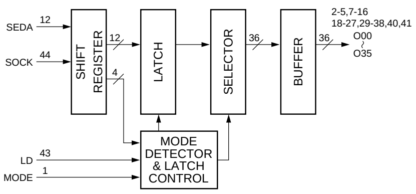

44 43 42 41 40 39 38 37 36 35 34
1 2 3 4 5 6 7 8 9 10 11
33 32 31 30 29 28 27 26 25 24 23
12 13 14 15 16 17 18 19 20 21 22
VDD (+4.5V to +5.5V)
GND
VDD (+4.5V to +5.5V)
GND

(VDD = +4.5V to +5.5V)

PIN NO.	I/O	SYMBOL	PIN NO.	I/O	SYMBOL	PIN NO.	I/O	SYMBOL	PIN NO.	I/O	SYMBOL
1	I	MODE	12	O	O09	23	O	O19	34	O	O29
2	O	O00	13	O	O10	24	O	O20	35	O	O30
3	O	O01	14	O	O11	25	O	O21	36	O	O31
4	O	O02	15	O	O12	26	O	O22	37	O	O32
5	O	O03	16	O	O13	27	O	O23	38	O	O33
6	–	GND	17	–	GND	28	–	VDD	39	–	VDD
7	O	O04	18	O	O14	29	O	O24	40	O	O34
8	O	O05	19	O	O15	30	O	O25	41	O	O35
9	O	O06	20	O	O16	31	O	O26	42	I	SEDA
10	O	O07	21	O	O17	32	O	O27	43	I	LD
11	O	O08	22	O	O18	33	O	O28	44	I	SOCK


42 SEDA
44 SOCK
1 MODE
43 LD
O00 2
O01 3
O02 4
O03 5
O04 7
O05 8
O06 9
O07 10
O08 11
O09 12
O10 13
O11 14
O12 15
O13 16
O14 18
O15 19
O16 20
O17 21
O18 22
O19 23
O20 24
O21 25
O22 26
O23 27
O24 29
O25 30
O26 31
O27 32
O28 33
O29 34
O30 35
O31 36
O32 37
O33 38
O34 40
O35 41

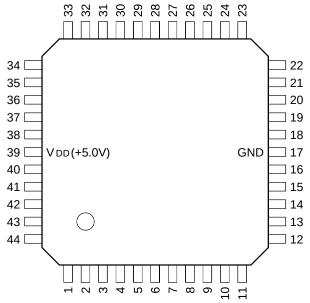
LD ; LOAD PULSE
MODE ; MODE SELECT
SEDA ; SERIAL DATA
SOCK ; SERIAL CLOCK
O01-O35 ; OUTPUT


SEDA 12
SOCK 44
SHIFT REGISTER
12
4
LATCH
SELECTOR
36
BUFFER
36
2-5,7-16
18-27,29-38,40,41
O00
/
O35
LD 43
MODE 1
MODE DETECTOR & LATCH CONTROL

CXD8344AQ(SONY)

C-MOS PULSE GENERATOR

- TOP VIEW -


33 32 31 30 29 28 27 26 25 24 23
34 35 36 37 38 39 40 41 42 43 44
22 21 20 19 18 17 16 15 14 13 12
1 2 3 4 5 6 7 8 9 10 11
VDD(+5.0V)
GND

(VDD =+5.0V)

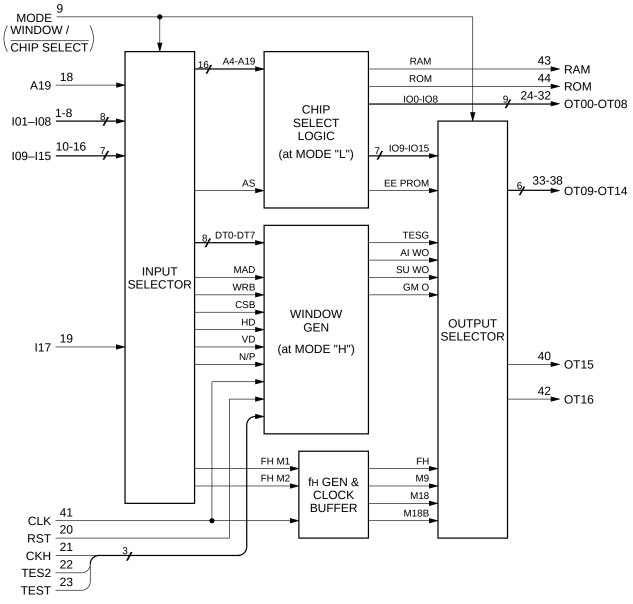
PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	I	I01	12	I	I11	23	I	TEST	34	O	OT10
2	I	I02	13	I	I12	24	O	OT00	35	O	OT11
3	I	I03	14	I	I13	25	O	OT01	36	O	OT12
4	I	I04	15	I	I14	26	O	OT02	37	O	OT13
5	I	I05	16	I	I15	27	O	OT03	38	O	OT14
6	I	I06	17	–	GND	28	O	OT04	39	–	VDD
7	I	I07	18	I	A19	29	O	OT05	40	O	OT15
8	I	I08	19	I	I17	30	O	OT06	41	I	CLK
9	I	MODE	20	I	RST	31	O	OT07	42	O	OT16
10	I	I09	21	I	CKH	32	O	OT08	43	O	RAM
11	I	I10	22	I	TES2	33	O	OT09	44	O	ROM

INPUT

A19 ; ADDRESS INPUT
CKH ; FOR TEST
CLK ; CLOCK
I01–I17 ; INPUT
MODE ; MODE SELECT
(H:WINDOW GEN / L:CHIP SELECT LOGIC)
RST ; RESET
TES2 ; FOR TEST
TEST ; FOR TEST

OUTPUT

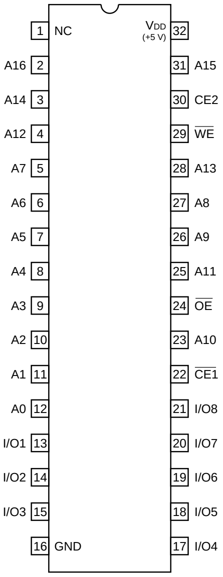
OT00-OT16 ; OUTPUT
RAM ; RAM OUT
ROM ; ROM OUT


MODE 9
(WINDOW / CHIP SELECT)
A19 18
I01–I08 1-8 8
I09–I15 10-16 7
I17 19
CLK 41
RST 20
CKH 21
TES2 22
TEST 23
3
INPUT SELECTOR
16 A4-A19
AS
CHIP SELECT LOGIC (at MODE "L")
RAM
ROM
IO0-IO8
9
7 IO9-IO15
EE PROM
8 DT0-DT7
MAD
WRB
CSB
HD
VD
N/P
WINDOW GEN (at MODE "H")
TESG
AI WO
SU WO
GM O
FH M1
FH M2
fH GEN & CLOCK BUFFER
FH
M9
M18
M18B
OUTPUT SELECTOR
43 RAM
44 ROM
24-32 OT00-OT08
6 33-38 OT09-OT14
40 OT15
42 OT16

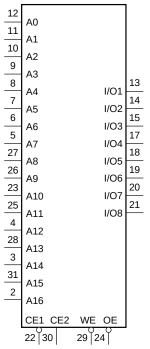
CXK581000ATM-10LL(SONY)FLAT PACKAGE

C-MOS 1M (131,072×8)-BIT STATIC RAM

- TOP VIEW -



1 NC
32 VDD (+5 V)
2 A16
31 A15
3 A14
30 CE2
4 A12
29 WE
5 A7
28 A13
6 A6
27 A8
7 A5
26 A9
8 A4
25 A11
9 A3
24 OE
10 A2
23 A10
11 A1
22 CE1
12 A0
21 I/O8
13 I/O1
20 I/O7
14 I/O2
19 I/O6
15 I/O3
18 I/O5
16 GND
17 I/O4

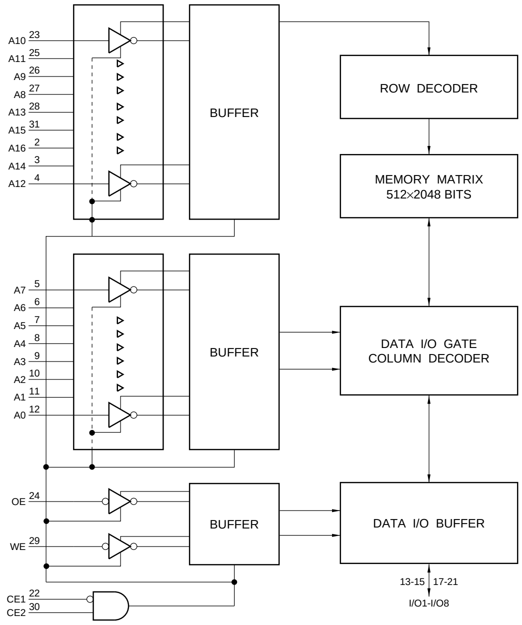


12 A0
11 A1
10 A2
9 A3
8 A4
7 A5
6 A6
5 A7
27 A8
26 A9
23 A10
25 A11
4 A12
28 A13
3 A14
31 A15
2 A16
I/O1 13
I/O2 14
I/O3 15
I/O4 17
I/O5 18
I/O6 19
I/O7 20
I/O8 21
CE1 22
CE2 30
WE 29
OE 24

A0 - A16 ; ADDRESS INPUT
I/O1 - I/O8 ; DATA OUTPUTS
$\overline{\text{CE1}}$, CE2 ; CHIP ENABLE INPUTS
$\overline{\text{WE}}$; WRITE ENABLE INPUT
$\overline{\text{OE}}$; OUTPUT ENABLE INPUT

CE1	CE2	OE	WE	MODE	I/O TERMINAL
1	X	X	X	NOT SELECT	HI-Z
X	0	X	X	NOT SELECT	HI-Z
0	1	1	1	OUTPUT DISABLE	HI-Z
0	1	0	1	READ	DATA OUTPUT
0	1	X	0	WRITE	DATA INPUT

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE
HI-Z ; HIGH IMPEDANCE

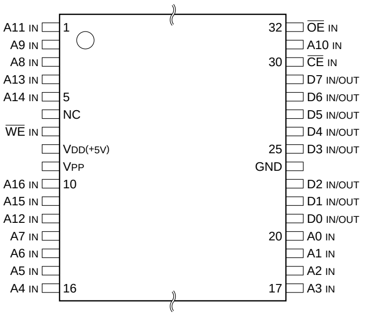


A10 23
A11 25
A9 26
A8 27
A13 28
A15 31
A16 2
A14 3
A12 4
BUFFER
ROW DECODER
MEMORY MATRIX 512×2048 BITS
A7 5
A6 6
A5 7
A4 8
A3 9
A2 10
A1 11
A0 12
BUFFER
DATA I/O GATE COLUMN DECODER
OE 24
WE 29
BUFFER
DATA I/O BUFFER
CE1 22
CE2 30
13-15
17-21
I/O1-I/O8

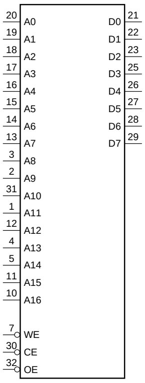
E28F010-120(INTEL)FLAT PACKAGE

1M-BIT FLASH ROM

-TOP VIEW-

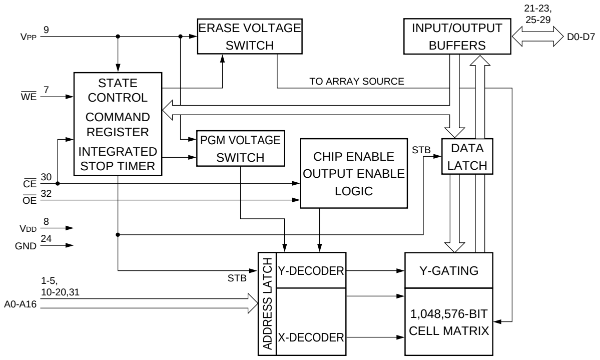


A11 IN
A9 IN
A8 IN
A13 IN
A14 IN
NC
WE IN
VDD(+5V)
VPP
A16 IN
A15 IN
A12 IN
A7 IN
A6 IN
A5 IN
A4 IN
1
5
10
16
32
30
25
20
17
OE IN
A10 IN
CE IN
D7 IN/OUT
D6 IN/OUT
D5 IN/OUT
D4 IN/OUT
D3 IN/OUT
GND
D2 IN/OUT
D1 IN/OUT
D0 IN/OUT
A0 IN
A1 IN
A2 IN
A3 IN



20 A0
19 A1
18 A2
17 A3
16 A4
15 A5
14 A6
13 A7
3 A8
2 A9
31 A10
1 A11
12 A12
4 A13
5 A14
11 A15
10 A16
7 WE
30 CE
32 OE
D0 21
D1 22
D2 23
D3 25
D4 26
D5 27
D6 28
D7 29

A0-A16 ; ADDRESS INPUT
CE ; CHIP ENABLE INPUT
D0-D7 ; DATA INPUT/OUTPUT
OE ; OUTPUT ENABLE INPUT
WE ; WRITE ENABLE INPUT

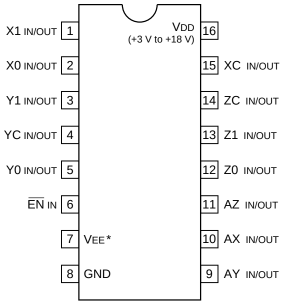


VPP 9
ERASE VOLTAGE SWITCH
INPUT/OUTPUT BUFFERS
21-23, 25-29
D0-D7
WE 7
STATE CONTROL
COMMAND REGISTER
INTEGRATED STOP TIMER
TO ARRAY SOURCE
PGM VOLTAGE SWITCH
CHIP ENABLE OUTPUT ENABLE LOGIC
STB
DATA LATCH
CE 30
OE 32
VDD 8
GND 24
1-5, 10-20,31
A0-A16
STB
ADDRESS LATCH
Y-DECODER
X-DECODER
Y-GATING
1,048,576-BIT CELL MATRIX

HD14053BFP(HITACHI)FLAT PACKAGE

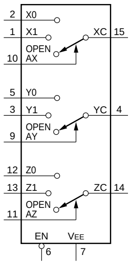
C-MOS TRIPLE 2-CHANNEL ANALOG MULTIPLEXERS/DEMULTIPLEXERS

— TOP VIEW —



X1 IN/OUT 1
X0 IN/OUT 2
Y1 IN/OUT 3
YC IN/OUT 4
Y0 IN/OUT 5
EN IN 6
7 VEE*
8 GND
VDD (+3 V to +18 V) 16
15 XC IN/OUT
14 ZC IN/OUT
13 Z1 IN/OUT
12 Z0 IN/OUT
11 AZ IN/OUT
10 AX IN/OUT
9 AY IN/OUT

V_{EE}*; $V_{DD} – V_{EE}$ + 3 V + 18 V



2 X0
1 X1
XC 15
OPEN
10 AX
5 Y0
3 Y1
YC 4
OPEN
9 AY
12 Z0
13 Z1
ZC 14
OPEN
11 AZ
EN
VEE
6
7

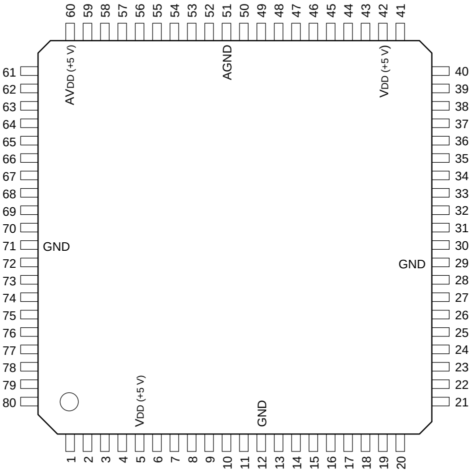
CONT. INPUTS		ON CHANNEL
EN	A (X, Y, Z)	
0	0	0
0	1	1
1	X	OPEN

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE

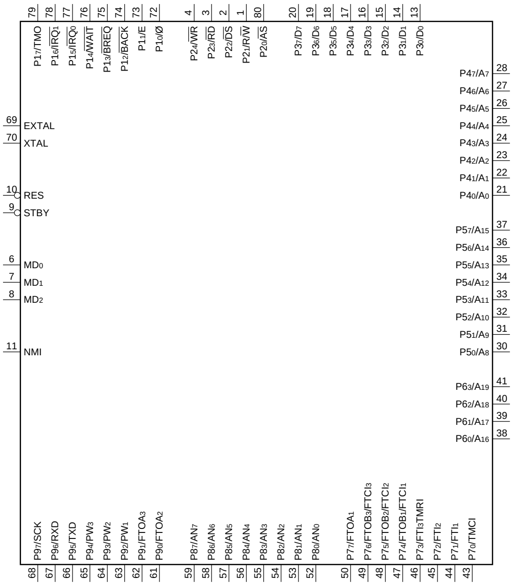
HD6475328F10(HITACHI)

C-MOS 16-BIT MICROPROCESSOR

— TOP VIEW —


AVDD (+5 V)
AGND
VDD (+5 V)
GND
GND
VDD (+5 V)
GND
1–80

PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	I/O	P21/R/$\overline{W}$	28	I/O	P47/A7	55	I/O	P83/AN3
2	I/O	P22/$\overline{DS}$	29	—	GND	56	I/O	P84/AN4
3	I/O	P23/$\overline{RD}$	30	I/O	P50/A8	57	I/O	P85/AN5
4	I/O	P24/$\overline{WR}$	31	I/O	P51/A9	58	I/O	P86/AN6
5	—	V_{DD}	32	I/O	P52/A10	59	I/O	P87/AN7
6	I	MD0	33	I/O	P53/A11	60	—	AV_{DD}
7	I	MD1	34	I/O	P54/A12	61	I/O	P90/FTOA2
8	I	MD2	35	I/O	P55/A13	62	I/O	P91/FTOA3
9	I	$\overline{STBY}$	36	I/O	P56/A14	63	I/O	P92/PW1
10	I	$\overline{RES}$	37	I/O	P57/A15	64	I/O	P93/PW2
11	I	NMI	38	I/O	P60/A16	65	I/O	P94/PW3
12	—	GND	39	I/O	P61/A17	66	I/O	P95/TXD
13	I/O	P30/D0	40	I/O	P62/A18	67	I/O	P96/RXD
14	I/O	P31/D1	41	I/O	P63/A19	68	I/O	P97/SCK
15	I/O	P32/D2	42	—	V_{DD}	69	I	EXTAL
16	I/O	P33/D3	43	I/O	P70/TMCI	70	I	XTAL
17	I/O	P34/D4	44	I/O	P71/FTI1	71	—	V_{SS}
18	I/O	P35/D5	45	I/O	P72/FTI2	72	I/O	P10/ø
19	I/O	P36/D6	46	I/O	P73/FTI3/TMRI	73	I/O	P11/E
20	I/O	P37/D7	47	I/O	P74/FTOB1/FTCI1	74	I/O	P12/$\overline{BACK}$
21	I/O	P40/A0	48	I/O	P75/FTOB2/FTCI2	75	I/O	P12/$\overline{BREQ}$
22	I/O	P41/A1	49	I/O	P76/FTOB3/FTCI3	76	I/O	P12/$\overline{WAIT}$
23	I/O	P42/A2	50	O	P77/FTOA1	77	I/O	P12/$\overline{IRQ0}$
24	I/O	P43/A3	51	—	AGND	78	I/O	P12/$\overline{IRQ1}$
25	I/O	P44/A4	52	I/O	P80/AN0	79	I/O	P12/TMO
26	I/O	P45/A5	53	I/O	P81/AN1	80	I/O	P12/$\overline{AS}$
27	I/O	P46/A6	54	I/O	P82/AN2			


P17/TMO
P16/IRQ1
P15/IRQ0
P14/WAIT
P13/BREQ
P12/BACK
P11/E
P10/Ø
P24/WR
P23/RD
P22/DS
P21/R/W
P20/AS
P37/D7
P36/D6
P35/D5
P34/D4
P33/D3
P32/D2
P31/D1
P30/D0
EXTAL
XTAL
RES
STBY
MD0
MD1
MD2
NMI
P47/A7
P46/A6
P45/A5
P44/A4
P43/A3
P42/A2
P41/A1
P40/A0
P57/A15
P56/A14
P55/A13
P54/A12
P53/A11
P52/A10
P51/A9
P50/A8
P63/A19
P62/A18
P61/A17
P60/A16
P97/SCK
P96/RXD
P95/TXD
P94/PW3
P93/PW2
P92/PW1
P91/FTOA3
P90/FTOA2
P87/AN7
P86/AN6
P85/AN5
P84/AN4
P83/AN3
P82/AN2
P81/AN1
P80/AN0
P77/FTOA1
P76/FTOB3/FTCI3
P75/FTOB2/FTCI2
P74/FTOB1/FTCI1
P73/FTI3/TMRI
P72/FTI2
P71/FTI1
P70/TMCI

INPUT

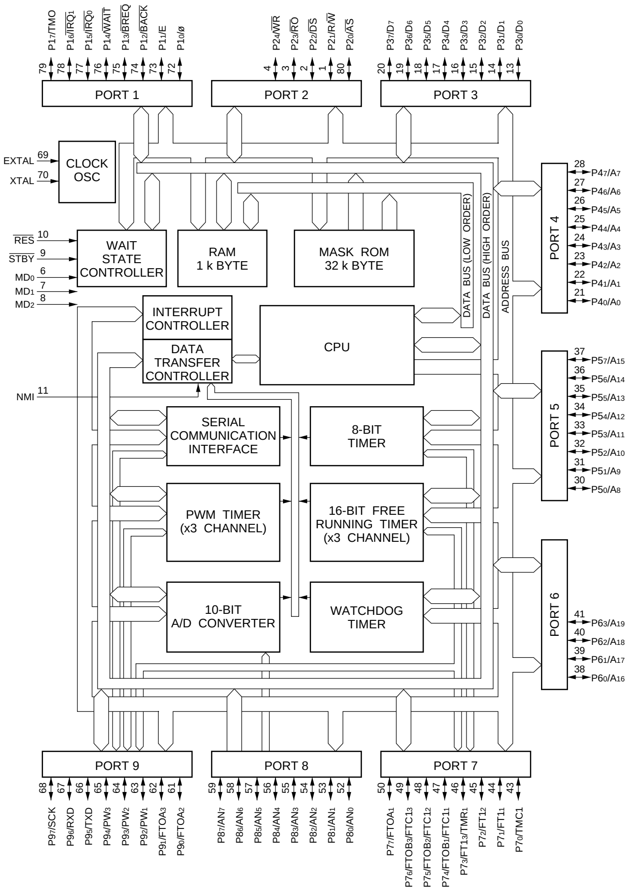
AN0-AN7	; ANALOG INPUT
BREQ	; BUS REQUEST
EXTAL	; CONNECTED TO CRYSTAL OSCILLATOR.
ETCI1-FTCI3	; FRT COUNTER CLOCK INPUT (CHANNEL 1 TO 3)
FTI1-FTI3	; FRT INPUT CAPTURE INPUT (CHANNEL 1 TO 3)
IRQ0, 1	; INTERRUPTION REQUEST 0 AND 1
MD0-MD2	; MODE SETTING
NMI	; NON MASKABLE INTERRUPTION
P80-P87	; PORT 8
RES	; RESET
RXD	; RECEIVE DATA
STBY	; STANDBY
TMCI	; 8-BIT TIMER CLOCK INPUT
TMRI	; 8-BIT TIMER COUNTER RESET INPUT
WAIT	; WAIT
XTAL	; CONNECTED TO CRYSTAL OSCILLATOR.

OUTPUT

A0-A19	; ADDRESS BUS
AS	; ADDRESS STROBE
BACK	; BUS REQUEST ACKNOWLEDGE
DS	; DATA STROBE
E	; ENABLE CLOCK
FTOA1-FTOA3	; FRT OUTPUT COMPARE A OUTPUT (CHANNEL 1 TO 3)
FTOB1-FTOB3	; FRT OUTPUT COMPARE B OUTPUT (CHANNEL 1 TO 3)
PW1-PW3	; PWM TIMER OUTPUT (CHANNEL 1 TO 3)
R/W	; READ/WRITE
RD	; READ
TMO	; 8-BIT TIMER OUTPUT
TXD	; SEND DATA
WR	; WRITE
ø	; SYSTEM CLOCK

INPUT/OUTPUT

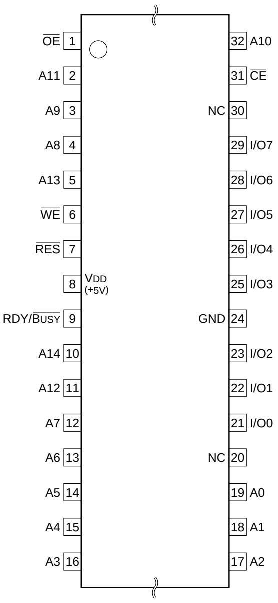
D0-D7	; DATA BUS
P10-P17	; PORT 1
P20-P24	; PORT 2
P30-P37	; PORT 3
P40-P47	; PORT 4
P50-P57	; PORT 5
P60-P63	; PORT 6
P70-P77	; PORT 7
P90-P97	; PORT 9
SCK	; SERIAL CLOCK INPUT/OUTPUT

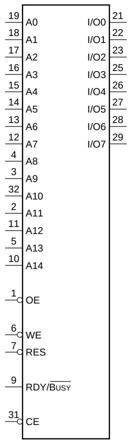

PORT 1
PORT 2
PORT 3
PORT 4
PORT 5
PORT 6
PORT 7
PORT 8
PORT 9
EXTAL
XTAL
CLOCK OSC
RES
STBY
MD0
MD1
MD2
WAIT STATE CONTROLLER
RAM 1 k BYTE
MASK ROM 32 k BYTE
INTERRUPT CONTROLLER
DATA TRANSFER CONTROLLER
CPU
NMI
SERIAL COMMUNICATION INTERFACE
8-BIT TIMER
PWM TIMER (x3 CHANNEL)
16-BIT FREE RUNNING TIMER (x3 CHANNEL)
10-BIT A/D CONVERTER
WATCHDOG TIMER
DATA BUS (LOW ORDER)
DATA BUS (HIGH ORDER)
ADDRESS BUS
P17/TMO
P16/IRQ1
P15/IRQ0
P14/WAIT
P13/BREQ
P12/BACK
P11/E
P10/ø
P24/WR
P23/RD
P22/DS
P21/R/W
P20/AS
P37/D7
P36/D6
P35/D5
P34/D4
P33/D3
P32/D2
P31/D1
P30/D0
P47/A7
P46/A6
P45/A5
P44/A4
P43/A3
P42/A2
P41/A1
P40/A0
P57/A15
P56/A14
P55/A13
P54/A12
P53/A11
P52/A10
P51/A9
P50/A8
P63/A19
P62/A18
P61/A17
P60/A16
P97/SCK
P96/RXD
P95/TXD
P94/PW3
P93/PW2
P92/PW1
P91/FTOA3
P90/FTOA2
P87/AN7
P86/AN6
P85/AN5
P84/AN4
P83/AN3
P82/AN2
P81/AN1
P80/AN0
P77/FTOA1
P76/FTOB3/FTC13
P75/FTOB2/FTC12
P74/FTOB1/FTC11
P73/FT13/TMR1
P72/FT12
P71/FT11
P70/TMC1

HN58C257T(HITACHI)FLAT PACKAGE

32K(32768×8)-BIT EEPROM

-TOP VIEW-

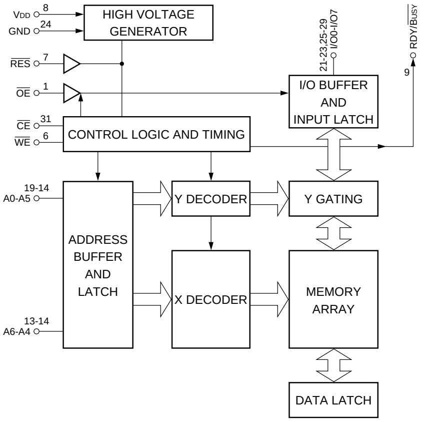

OE 1
A11 2
A9 3
A8 4
A13 5
WE 6
RES 7
8 VDD (+5V)
RDY/BUSY 9
A14 10
A12 11
A7 12
A6 13
A5 14
A4 15
A3 16
32 A10
31 CE
NC 30
29 I/O7
28 I/O6
27 I/O5
26 I/O4
25 I/O3
GND 24
23 I/O2
22 I/O1
21 I/O0
NC 20
19 A0
18 A1
17 A2


19 A0
18 A1
17 A2
16 A3
15 A4
14 A5
13 A6
12 A7
4 A8
3 A9
32 A10
2 A11
11 A12
5 A13
10 A14
1 OE
6 WE
7 RES
9 RDY/BUSY
31 CE
I/O0 21
I/O1 22
I/O2 23
I/O3 25
I/O4 26
I/O5 27
I/O6 28
I/O7 29

A0-A14 ; ADDRESS INPUT
I/O0-I/O7 ; DATA INPUT/OUTPUT
$\overline{CE}$; CHIP ENABLE INPUT
$\overline{OE}$; OUTPUT ENABLE INPUT
RDY/$\overline{BUSY}$; REDY/BUSY INPUT
$\overline{RES}$; RESET INPUT
$\overline{WE}$; WRITE ENABLE INPUT

PIN / MODE	$\overline{CE}$	$\overline{OE}$	$\overline{WE}$	RDY/$\overline{BUSY}$	$\overline{RES}$	I/O
READ	0	0	1	HIGH Z	1	D_{OUT}
STANDBY	1	X	X	HIGH Z	X	HIGH Z
WRITE	0	1	0	HIGH Z → V_{OL}	1	D_{IN}
DESELECT	0	1	1	HIGH Z	1	HIGH Z
WRITE INHIBIT	X	X	1	HIGH Z	X	–
WRITE INHIBIT	X	0	X	HIGH Z	X	–
DATA POLLING	0	0	1	V_{OL}	1	DATA OUT
PROGRAM RESET	X	X	X	HIGH Z	0	HIGH Z

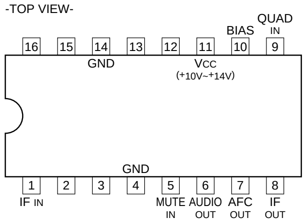
0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE
HI-Z ; HIGH IMPEDANCE

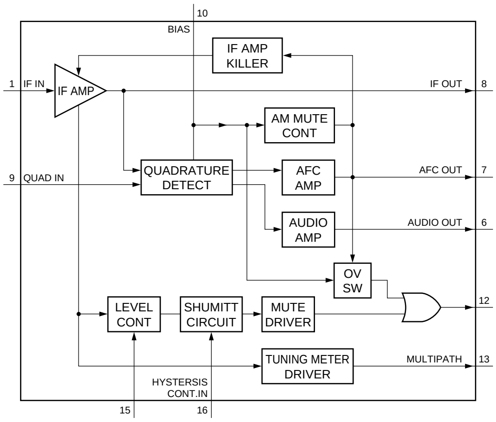

VDD 8
GND 24
RES 7
OE 1
CE 31
WE 6
HIGH VOLTAGE GENERATOR
CONTROL LOGIC AND TIMING
21-23,25-29 I/O0-I/O7
RDY/BUSY 9
I/O BUFFER AND INPUT LATCH
19-14 A0-A5
13-14 A6-A4
ADDRESS BUFFER AND LATCH
Y DECODER
Y GATING
X DECODER
MEMORY ARRAY
DATA LATCH

LA1235(SANYO)

FM IF DEMODULATOR

-TOP VIEW-

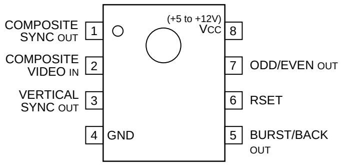

QUAD IN
BIAS
16
15
14
13
12
11
10
9
GND
VCC (+10V~+14V)
GND
1
2
3
4
5
6
7
8
IF IN
MUTE IN
AUDIO OUT
AFC OUT
IF OUT

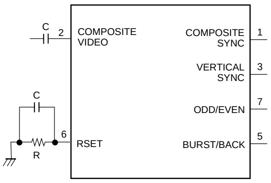

10
BIAS
IF AMP KILLER
1
IF IN
IF AMP
IF OUT
8
AM MUTE CONT
9
QUAD IN
QUADRATURE DETECT
AFC AMP
AFC OUT
7
AUDIO AMP
AUDIO OUT
6
OV SW
12
LEVEL CONT
SHUMITT CIRCUIT
MUTE DRIVER
TUNING METER DRIVER
MULTIPATH
13
HYSTERSIS CONT.IN
15
16

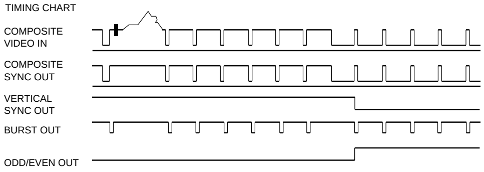
LM1881M(NS)FLAT PACKAGE

VIDEO SYNC SEPARATOR

—TOP VIEW—

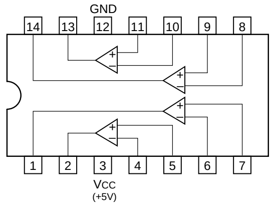

COMPOSITE SYNC OUT 1
COMPOSITE VIDEO IN 2
VERTICAL SYNC OUT 3
4 GND
(+5 to +12V) VCC 8
7 ODD/EVEN OUT
6 RSET
5 BURST/BACK OUT


C
2
COMPOSITE VIDEO
COMPOSITE SYNC
1
VERTICAL SYNC
3
ODD/EVEN
7
C
6
RSET
R
BURST/BACK
5



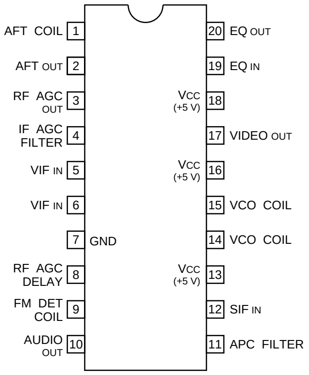
LM339NS(TI)FLAT PACKAGE

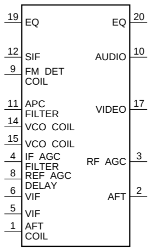
QUAD COMPARATORS
—TOP VIEW—

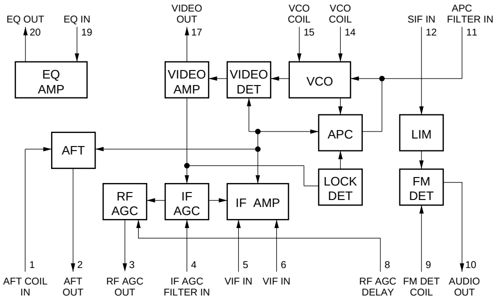

GND
14
13
12
11
10
9
8
1
2
3
4
5
6
7
Vcc
(+5V)

M52313SP(MITSUBISHI)

PLL VIF/SIF
— TOP VIEW —

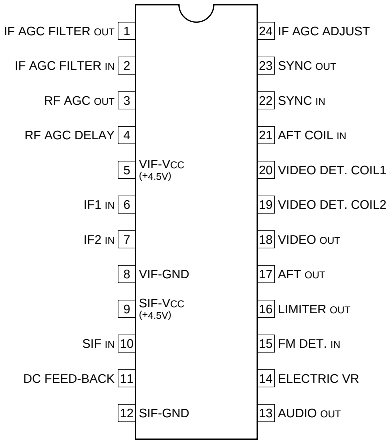

AFT COIL 1
AFT OUT 2
RF AGC OUT 3
IF AGC FILTER 4
VIF IN 5
VIF IN 6
7 GND
RF AGC DELAY 8
FM DET COIL 9
AUDIO OUT 10
20 EQ OUT
19 EQ IN
Vcc (+5 V) 18
17 VIDEO OUT
Vcc (+5 V) 16
15 VCO COIL
14 VCO COIL
Vcc (+5 V) 13
12 SIF IN
11 APC FILTER

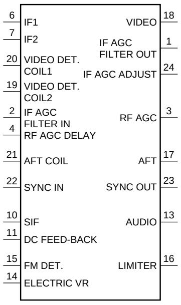

19 EQ
12 SIF
9 FM DET COIL
11 APC FILTER
14 VCO COIL
15 VCO COIL
4 IF AGC FILTER
8 REF AGC DELAY
6 VIF
5 VIF
1 AFT COIL
EQ 20
AUDIO 10
VIDEO 17
RF AGC 3
AFT 2

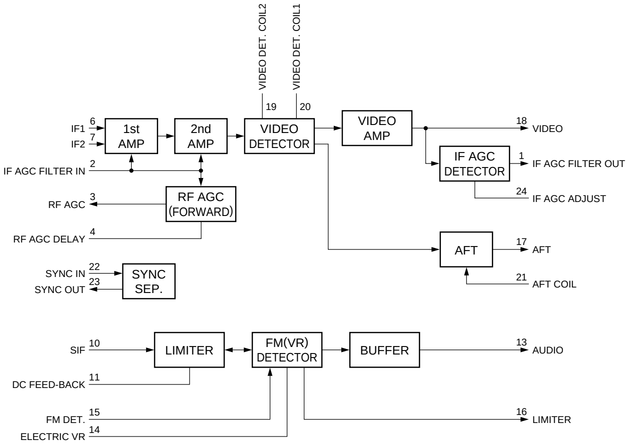

EQ OUT 20
EQ IN 19
VIDEO OUT 17
VCO COIL 15
VCO COIL 14
SIF IN 12
APC FILTER IN 11
EQ AMP
VIDEO AMP
VIDEO DET
VCO
APC
LIM
AFT
LOCK DET
FM DET
RF AGC
IF AGC
IF AMP
1 AFT COIL IN
2 AFT OUT
3 RF AGC OUT
4 IF AGC FILTER IN
5 VIF IN
6 VIF IN
8 RF AGC DELAY
9 FM DET COIL
10 AUDIO OUT

M51348AFP(MITSUBISHI)FLAT PACKAGE

POCKET TV IF SYSTEM
-TOP VIEW-

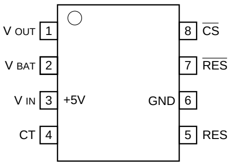

IF AGC FILTER OUT 1
IF AGC FILTER IN 2
RF AGC OUT 3
RF AGC DELAY 4
5 VIF-Vcc (+4.5V)
IF1 IN 6
IF2 IN 7
8 VIF-GND
9 SIF-Vcc (+4.5V)
SIF IN 10
DC FEED-BACK 11
12 SIF-GND
24 IF AGC ADJUST
23 SYNC OUT
22 SYNC IN
21 AFT COIL IN
20 VIDEO DET. COIL1
19 VIDEO DET. COIL2
18 VIDEO OUT
17 AFT OUT
16 LIMITER OUT
15 FM DET. IN
14 ELECTRIC VR
13 AUDIO OUT

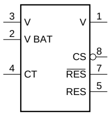

6 IF1
7 IF2
20 VIDEO DET. COIL1
19 VIDEO DET. COIL2
2 IF AGC FILTER IN
4 RF AGC DELAY
21 AFT COIL
22 SYNC IN
10 SIF
11 DC FEED-BACK
15 FM DET.
14 ELECTRIC VR
VIDEO 18
IF AGC FILTER OUT 1
IF AGC ADJUST 24
RF AGC 3
AFT 17
SYNC OUT 23
AUDIO 13
LIMITER 16


VIDEO DET. COIL2
VIDEO DET. COIL1
19
20
IF1 6
IF2 7
1st AMP
2nd AMP
VIDEO DETECTOR
VIDEO AMP
18 VIDEO
IF AGC DETECTOR
1 IF AGC FILTER OUT
24 IF AGC ADJUST
IF AGC FILTER IN 2
RF AGC 3
RF AGC (FORWARD)
RF AGC DELAY 4
AFT
17 AFT
21 AFT COIL
SYNC IN 22
SYNC OUT 23
SYNC SEP.
SIF 10
LIMITER
FM(VR) DETECTOR
BUFFER
13 AUDIO
DC FEED-BACK 11
FM DET. 15
ELECTRIC VR 14
16 LIMITER

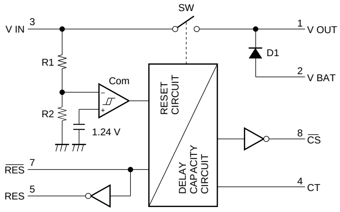
M62021FP(MITSUBISHI)FLAT PACKAGE

SELECTION SW BUILT-IN SYSTEM RESET
— TOP VIEW —


V OUT 1
V BAT 2
V IN 3
CT 4
+5V
GND
8 CS
7 RES
6 GND
5 RES


3 V
2 V BAT
4 CT
V 1
CS 8
RES 7
RES 5

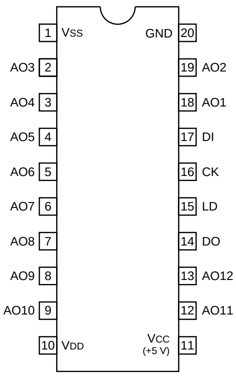
CS ; CHIP SELECT OUTPUT
CT ; DELAY CAPACITY INPUT
RES ; RESET OUTPUT
VBAT ; VIDEO SIGNAL BACKUP INPUT
VIN ; VIDEO SIGNAL INPUT
VOUT ; VIDEO SIGNAL OUTPUT

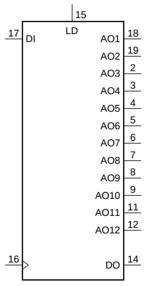

V IN 3
SW
1 V OUT
D1
2 V BAT
R1
R2
Com
1.24 V
RESET CIRCUIT
DELAY CAPACITY CIRCUIT
8 CS
RES 7
RES 5
4 CT

http://getMANUAL.com

M62352GP(MITSUBISHI)FLAT PACKAGE

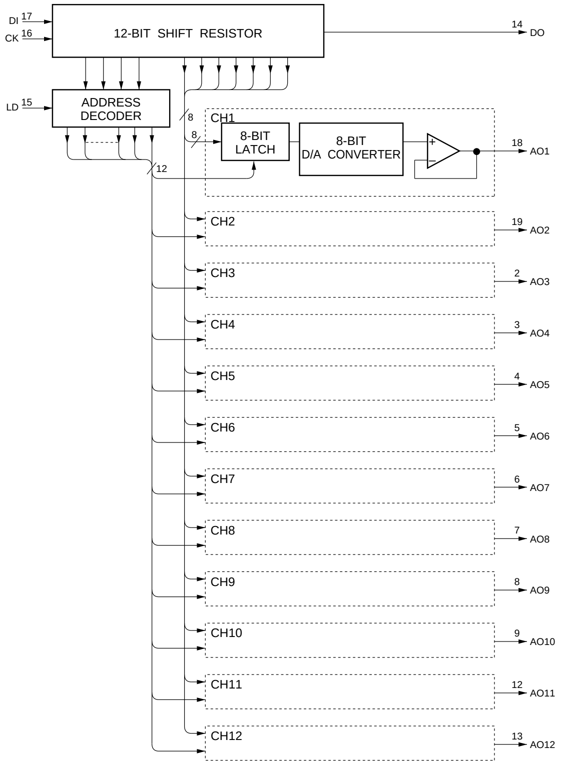
C-MOS 8-BITx12 CHANNEL D/A CONVERTER
(WITH BUFFER OPERATIONAL AMPLIFIER)
— TOP VIEW —


1 VSS
GND 20
AO3 2
19 AO2
AO4 3
18 AO1
AO5 4
17 DI
AO6 5
16 CK
AO7 6
15 LD
AO8 7
14 DO
AO9 8
13 AO12
AO10 9
12 AO11
10 VDD
VCC (+5 V) 11


15
LD
17 DI
AO1 18
AO2 19
AO3 2
AO4 3
AO5 4
AO6 5
AO7 6
AO8 7
AO9 8
AO10 9
AO11 11
AO12 12
16
DO 14

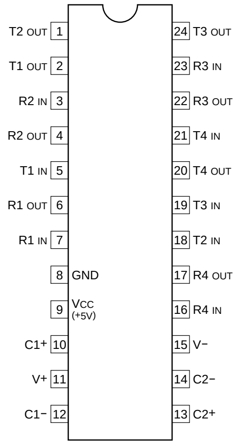
AO1-AO12	; 8-BIT D/A OUTPUTS
CK	; CLOCK INPUT
DI	; SERIAL DATA INPUT
DO	; DATA OUTPUT

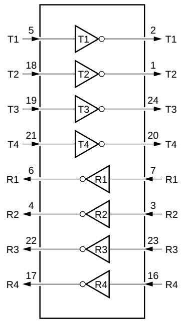
NOTE:
$3.5\ V < V_{DD} < V_{CC}$
$-3.5\ V < V_{SS} < V_{CC}$


DI 17
CK 16
12-BIT SHIFT RESISTOR
14 DO
LD 15
ADDRESS DECODER
8
8
12
CH1
8-BIT LATCH
8-BIT D/A CONVERTER
18 AO1
CH2
19 AO2
CH3
2 AO3
CH4
3 AO4
CH5
4 AO5
CH6
5 AO6
CH7
6 AO7
CH8
7 AO8
CH9
8 AO9
CH10
9 AO10
CH11
12 AO11
CH12
13 AO12

MAX238CWG(MAXIM)FLAT PACKAGE

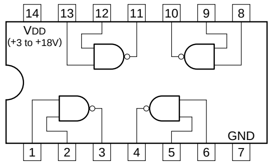
+5V POWER RS-232 DRIVERS/RECEIVERS
-TOP VIEW-

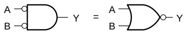

T2 OUT 1
24 T3 OUT
T1 OUT 2
23 R3 IN
R2 IN 3
22 R3 OUT
R2 OUT 4
21 T4 IN
T1 IN 5
20 T4 OUT
R1 OUT 6
19 T3 IN
R1 IN 7
18 T2 IN
8 GND
17 R4 OUT
9 VCC (+5V)
16 R4 IN
C1+ 10
15 V−
V+ 11
14 C2−
C1− 12
13 C2+


T1 5 T1 2 T1
T2 18 T2 1 T2
T3 19 T3 24 T3
T4 21 T4 20 T4
R1 6 R1 7 R1
R2 4 R2 3 R2
R3 22 R3 23 R3
R4 17 R4 16 R4

MC14011BF(MOTOROLA)FLAT PACKAGE

C-MOS 2-INPUT NAND GATE
-TOP VIEW-


14 13 12 11 10 9 8
VDD (+3 to +18V)
GND
1 2 3 4 5 6 7



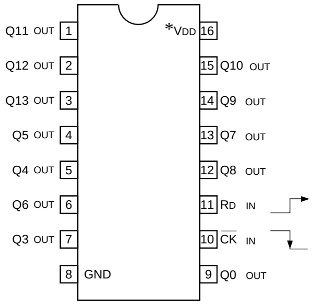
$Y = \overline{A \cdot B} = \overline{A} + \overline{B}$

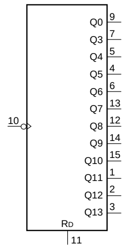
A	B	Y
0	0	1
0	1	1
1	0	1
1	1	0

0 ; LOW LEVEL
1 ; HIGH LEVEL

MC14020BF(MOTOROLA)FLAT PACKAGE

C-MOS 14-STAG RIPPLE-CARRY BINARY COUNTER/DRIVER
—TOP VIEW—


Q11 OUT 1
*VDD 16
Q12 OUT 2
15 Q10 OUT
Q13 OUT 3
14 Q9 OUT
Q5 OUT 4
13 Q7 OUT
Q4 OUT 5
12 Q8 OUT
Q6 OUT 6
11 RD IN
Q3 OUT 7
10 CK IN
8 GND
9 Q0 OUT


Q0 9
Q3 7
Q4 5
Q5 4
Q6 6
Q7 13
Q8 12
Q9 14
Q10 15
Q11 1
Q12 2
Q13 3
10
RD
11

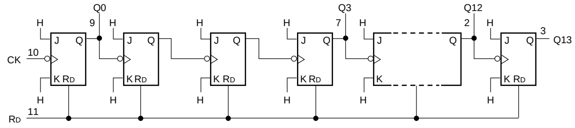
* TYPE	VDD
HC4020	+2 to +6V
14020, 4020, 84020	+3 to +18V

COUNT		BINARY OUTPUTS											
		Q13	Q12	Q11	Q10	Q9	Q8	Q7	Q6	Q5	Q4	Q3	Q0
0	0000	0	0	0	0	0	0	0	0	0	0	0	0
1	0001	0	0	0	0	0	0	0	0	0	0	0	1
2	0002	0	0	0	0	0	0	0	0	0	0	0	0
3	0003	0	0	0	0	0	0	0	0	0	0	0	1
4	0004	0	0	0	0	0	0	0	0	0	0	0	0
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮
16380	4FFC	1	1	1	1	1	1	1	1	1	1	1	0
16381	4FFD	1	1	1	1	1	1	1	1	1	1	1	1
16382	4FFE	1	1	1	1	1	1	1	1	1	1	1	0
16383	4FFF	1	1	1	1	1	1	1	1	1	1	1	1

IN HEXADECIMAL
IN DECIMAL

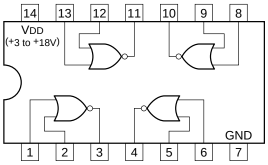
0 ; LOW LEVEL
1 ; HIGH LEVEL

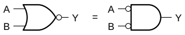
RD	Q13-Q0
1	ALL LOW
0	COUNT


Q0
9
Q3
7
Q12
2
3
Q13
H
J Q
K RD
CK 10
H
RD 11

MC14001BF(MOTOROLA)FLAT PACKAGE

C-MOS 2-INPUT NOR GATE
-TOP VIEW-


14 13 12 11 10 9 8
VDD (+3 to +18V)
GND
1 2 3 4 5 6 7



$Y = \overline{A + B} = \overline{A} \cdot \overline{B}$

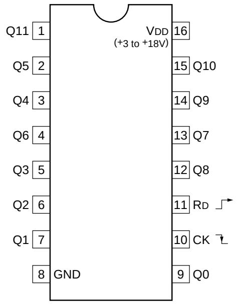
A	B	Y
0	0	1
0	1	0
1	0	0
1	1	0

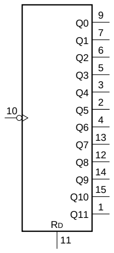
0 ; LOW LEVEL
1 ; HIGH LEVEL

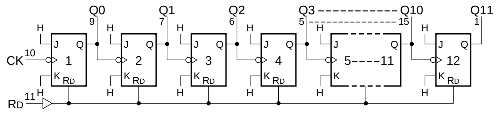
MC14040BF(MOTOROLA)FLAT PACKAGE

C-MOS 12-STAGE RIPPLE CARRY BINARY COUNTER/DRIVER

-TOP VIEW-


Q11 1
Q5 2
Q4 3
Q6 4
Q3 5
Q2 6
Q1 7
8 GND
16 VDD (+3 to +18V)
15 Q10
14 Q9
13 Q7
12 Q8
11 RD
10 CK
9 Q0


10
Q0 9
Q1 7
Q2 6
Q3 5
Q4 3
Q5 2
Q6 4
Q7 13
Q8 12
Q9 14
Q10 15
Q11 1
RD
11


Q0 9
Q1 7
Q2 6
Q3 5
Q10 15
Q11 1
CK 10
RD 11
H
J Q K RD
1
2
3
4
5----11
12

COUNT	Q11	Q10	Q9	Q8	Q7	Q6	Q5	Q4	Q3	Q2	Q1	Q0
0	0	0	0	0	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	0	0	0	0	1
2	0	0	0	0	0	0	0	0	0	0	1	0
3	0	0	0	0	0	0	0	0	0	0	1	1
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮
4095	1	1	1	1	1	1	1	1	1	1	1	1

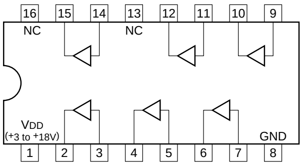
RD	Q11--------Q0
1	ALL LOW
0	COUNT

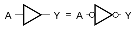
0 ; LOW LEVEL
1 ; HIGH LEVEL

MC14050BF(MOTOROLA)FLAT PACKAGE

C-MOS NON-INVERTING TYPE BUFFER/CONVERTER

-TOP VIEW-


16
15
14
13
12
11
10
9
NC
NC
VDD (+3 to +18V)
GND
1
2
3
4
5
6
7
8



Y = A

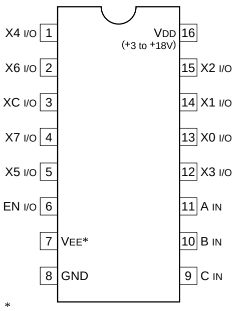
A	Y
0	0
1	1

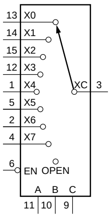
0 ; LOW LEVEL
1 ; HIGH LEVEL

MC14051BF(MOTOROLA)FLAT PACKAGE

C-MOS 8-CHANNEL ANALOG MULTIPLEXER/DEMULTIPLEXER

-TOP VIEW-


X4 I/O 1
X6 I/O 2
XC I/O 3
X7 I/O 4
X5 I/O 5
EN I/O 6
7 VEE*
8 GND
16 VDD (+3 to +18V)
15 X2 I/O
14 X1 I/O
13 X0 I/O
12 X3 I/O
11 A IN
10 B IN
9 C IN


13 X0
14 X1
15 X2
12 X3
1 X4
5 X5
2 X6
4 X7
XC 3
6 EN OPEN
A B C
11 10 9

CONTROL INPUTS				SELECTED CHANNEL
EN	SELECT			
	C	B	A	
0	0	0	0	X0
0	0	0	1	X1
0	0	1	0	X2
0	0	1	1	X3
0	1	0	0	X4
0	1	0	1	X5
0	1	1	0	X6
0	1	1	1	X7
1	X	X	X	OPEN

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE

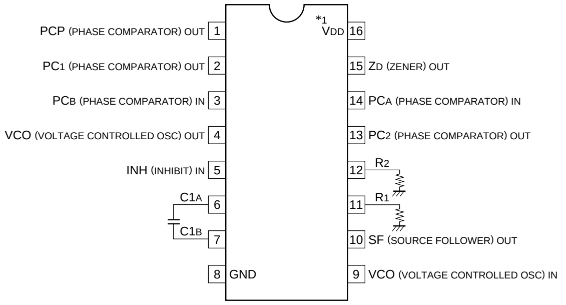
X0 to X7	;	ANALOG INPUTS/OUTPUTS
XC	;	COMMON INPUT/OUTPUT
A,B,C	;	CHANNEL SELECT INPUT
EN	;	ENABLE INPUT

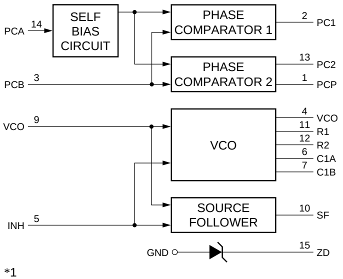
*
V_{EE} ; $V_{DD}-V_{EE}$=+3 to +18V

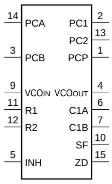
MC14046BF(MOTOROLA)FLAT

C-MOS PHASE LOCKED LOOP

-TOP VIEW-


PCP (PHASE COMPARATOR) OUT 1
PC1 (PHASE COMPARATOR) OUT 2
PCB (PHASE COMPARATOR) IN 3
VCO (VOLTAGE CONTROLLED OSC) OUT 4
INH (INHIBIT) IN 5
C1A 6
C1B 7
8 GND
*1 VDD 16
15 ZD (ZENER) OUT
14 PCA (PHASE COMPARATOR) IN
13 PC2 (PHASE COMPARATOR) OUT
12 R2
11 R1
10 SF (SOURCE FOLLOWER) OUT
9 VCO (VOLTAGE CONTROLLED OSC) IN


PCA 14
SELF BIAS CIRCUIT
PHASE COMPARATOR 1
2 PC1
PHASE COMPARATOR 2
13 PC2
1 PCP
PCB 3
VCO 9
VCO
4 VCO
11 R1
12 R2
6 C1A
7 C1B
INH 5
SOURCE FOLLOWER
10 SF
GND
15 ZD


14 PCA
3 PCB
9 VCOIN
11 R1
12 R2
5 INH
PC1 2
PC2 13
PCP 1
VCOOUT 4
C1A 6
C1B 7
SF 10
ZD 15

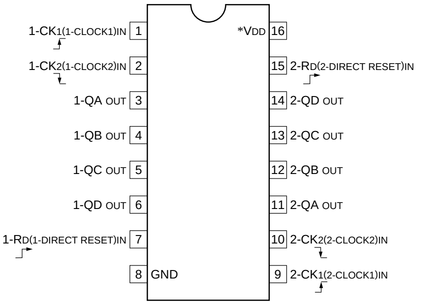
*1

TYPE	VDD
CD4046BE HD14046BP MC14046BCP MC14046BF TC4046BP	+3 to +8V
CD74HC4046AM MC74HC4046AF MC74HC4046AN	+2 to +6V

MC14520BF(MOTOROLA)FLAT PACKAGE

C-MOS DUAL 4-BIT BINARY UP COUNTER

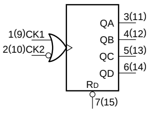
-TOP VIEW-


1-CK1(1-CLOCK1)IN 1
1-CK2(1-CLOCK2)IN 2
1-QA OUT 3
1-QB OUT 4
1-QC OUT 5
1-QD OUT 6
1-RD(1-DIRECT RESET)IN 7
8 GND
*VDD 16
15 2-RD(2-DIRECT RESET)IN
14 2-QD OUT
13 2-QC OUT
12 2-QB OUT
11 2-QA OUT
10 2-CK2(2-CLOCK2)IN
9 2-CK1(2-CLOCK1)IN

*

TYPE	VDD
HC4520	+2 to +6V
14520, 4520, 84520	+3 to +18V

STATE	OUTPUTS			
	QD	QC	QB	QA
0	0	0	0	0
1	0	0	0	1
2	0	0	1	0
3	0	0	1	1
4	0	1	0	0
5	0	1	0	1
6	0	1	1	0
7	0	1	1	1
8	1	0	0	0
9	1	0	0	1
10	1	0	1	0
11	1	0	1	1
12	1	1	0	0
13	1	1	0	1
14	1	1	1	0
15	1	1	1	1


1(9)CK1
2(10)CK2
QA 3(11)
QB 4(12)
QC 5(13)
QD 6(14)
RD
7(15)

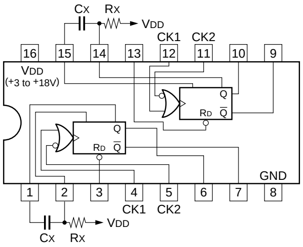
0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE

CK1	CK2	RD	ACTION
↑	1	0	INCREMENT COUNTER
0	↓	0	INCREMENT COUNTER
↓	X	0	NO CHANGE
X	↑	0	NO CHANGE
↑	0	0	NO CHANGE
1	↓	0	NO CHANGE
X	X	1	QA THRU QD = 0

MC14528BF(MOTOROLA)FLAT PACKAGE

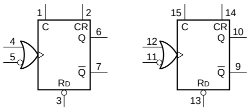
C-MOS RETRIGGERABLE/RESETTABLE MMV

-TOP VIEW-


Cx
Rx
VDD
CK1
CK2
16
15
14
13
12
11
10
9
VDD
(+3 to +18V)
Q
RD
$\overline{Q}$
GND
1
2
3
4
5
6
7
8
CK1
CK2
Cx
Rx
VDD

INPUTS			OUTPUTS	
CK1	CK2	RD	Q	$\overline{Q}$
↑	1	1	⊓	⊔
↑	0	1	Q	$\overline{Q}$
1	↓	1	Q	$\overline{Q}$
0	↓	1	⊓	⊔
X	X	0	0	1

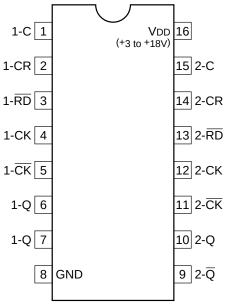
0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE

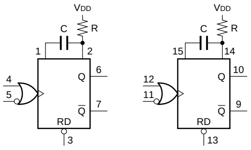

1
2
C
CR
Q
6
4
5
$\overline{Q}$
7
RD
3
15
14
C
CR
Q
10
12
11
$\overline{Q}$
9
RD
13

MC14538BF(MOTOROLA)FLAT PACKAGE

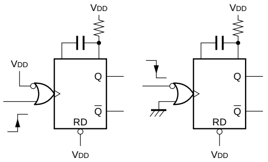
C-MOS DUAL RETRIGGERABLE MONOSTABLE MULTIVIBRATORS

-TOP VIEW-

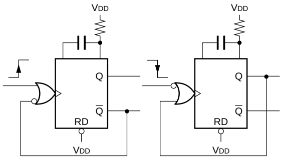

1-C 1
1-CR 2
1-$\overline{RD}$ 3
1-CK 4
1-$\overline{CK}$ 5
1-Q 6
1-Q 7
8 GND
VDD 16
(+3 to +18V)
15 2-C
14 2-CR
13 2-$\overline{RD}$
12 2-CK
11 2-$\overline{CK}$
10 2-Q
9 2-$\overline{Q}$


VDD
C
R
1
2
4
5
Q
6
$\overline{Q}$
7
RD
3
VDD
C
R
15
14
12
11
Q
10
$\overline{Q}$
9
RD
13

OUTPUT PULSE WIDTH = C·R


VDD
VDD
VDD
Q
$\overline{Q}$
RD
VDD
Q
$\overline{Q}$
RD
VDD

RETRIGGERABLE M.M.V

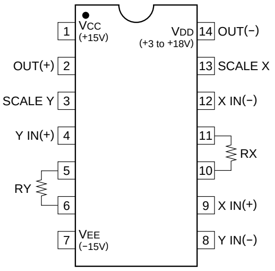

VDD
VDD
Q
$\overline{Q}$
RD
VDD
Q
$\overline{Q}$
RD
VDD

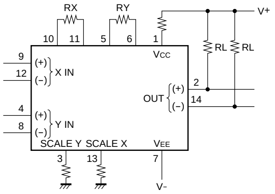
NON-RETRIGGERABLE M.M.V

MC1495M(MOTOROLA)FLAT PACKAGE

FOUR-QUADRANT MULTIPLIER

-TOP VIEW-

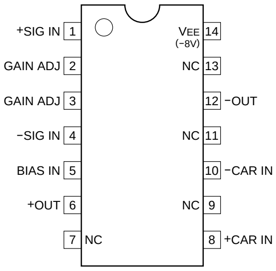

1 VCC (+15V)
OUT(+) 2
SCALE Y 3
Y IN(+) 4
5
RY
6
7 VEE (−15V)
VDD 14 OUT(−)
(+3 to +18V)
13 SCALE X
12 X IN(−)
11
RX
10
9 X IN(+)
8 Y IN(−)

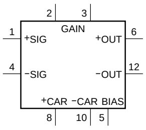

RX
RY
V+
10
11
5
6
1
VCC
RL
RL
9
12
(+)
(−)
X IN
OUT
(+)
(−)
2
14
4
8
(+)
(−)
Y IN
SCALE Y
SCALE X
VEE
3
13
7
V-

MC1496M(MOTOROLA)FLAT PACKAGE
NJM1496M(JRC)FLAT PACKAGE

BALANCED MODULATOR/DEMODULATOR

-TOP VIEW-

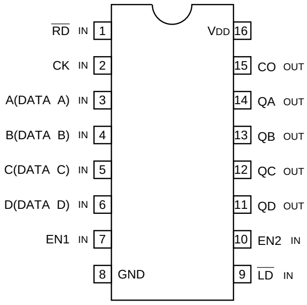

+SIG IN 1
GAIN ADJ 2
GAIN ADJ 3
−SIG IN 4
BIAS IN 5
+OUT 6
7 NC
VEE (−8V) 14
NC 13
12 −OUT
NC 11
10 −CAR IN
NC 9
8 +CAR IN


2
3
GAIN
1
+SIG
+OUT
6
4
−SIG
−OUT
12
+CAR
−CAR
BIAS
8
10
5

MC74HC163AF(MOTOROLA)FLAT PACKAGE

C-MOS PRESETTABLE SYNCHRONOUS 4-BIT BINARY COUNTER

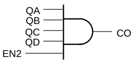
—TOP VIEW—


$\overline{RD}$ IN 1
CK IN 2
A(DATA A) IN 3
B(DATA B) IN 4
C(DATA C) IN 5
D(DATA D) IN 6
EN1 IN 7
8 GND
VDD 16
15 CO OUT
14 QA OUT
13 QB OUT
12 QC OUT
11 QD OUT
10 EN2 IN
9 $\overline{LD}$ IN

MODE SELECTION

CONTROL INPUTS				MODE
RD	LD	EN1	EN2	
0	X	X	X	RESET (SYNCHRONOUS)
1	0	X	X	PRESET (SYNCHRONOUS)
1	1	0	X	NO COUNT
1	1	X	0	NO COUNT
1	1	1	1	COUNT

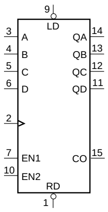
CARRY OUTPUT "CO"


QA
QB
QC
QD
EN2
CO

CO IS HIGH WHEN EN2 INPUT IS HIGH AND COUNT IS "15".

NOTE:

TYPE	VDD
HC	+2 to +6V
AC/VHC	+2 to +5.5V
HCT/ACT/FCT	+5V

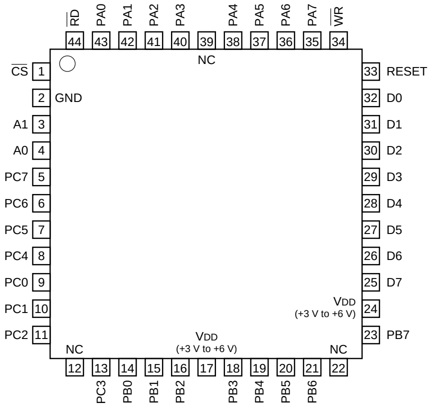

9
LD
3
A
QA
14
4
B
QB
13
5
C
QC
12
6
D
QD
11
2
7
EN1
CO
15
10
EN2
RD
1

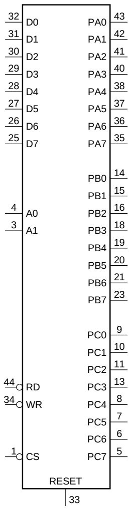
COUNT SEQUENCE

COUNT	OUTPUTS			
	QD	QC	QB	QA
0	0	0	0	0
1	0	0	0	1
2	0	0	1	0
3	0	0	1	1
4	0	1	0	0
5	0	1	0	1
6	0	1	1	0
7	0	1	1	1
8	1	0	0	0
9	1	0	0	1
10	1	0	1	0
11	1	0	1	1
12	1	1	0	0
13	1	1	0	1
14	1	1	1	0
15	1	1	1	1

MSM82C55A-2GS(OKI)FLAT PACKAGE

C-MOS PROGRAMMABLE PERIPHERAL INTERFACE
— TOP VIEW —

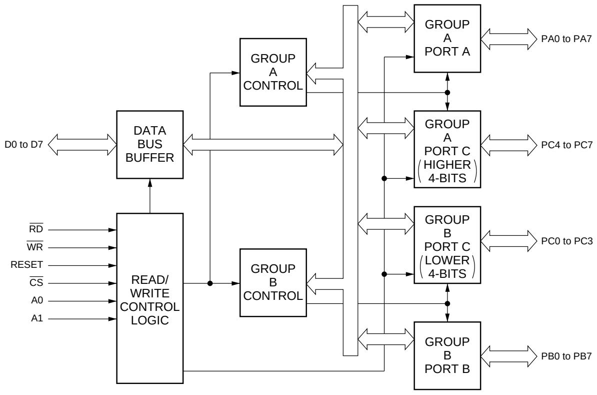

RD 44
PA0 43
PA1 42
PA2 41
PA3 40
39
PA4 38
PA5 37
PA6 36
PA7 35
WR 34
NC
CS 1
2 GND
A1 3
A0 4
PC7 5
PC6 6
PC5 7
PC4 8
PC0 9
PC1 10
PC2 11
33 RESET
32 D0
31 D1
30 D2
29 D3
28 D4
27 D5
26 D6
25 D7
VDD (+3 V to +6 V) 24
23 PB7
NC
VDD (+3 V to +6 V)
NC
12 PC3
13 PB0
14 PB1
15 PB2
16
17
18 PB3
19 PB4
20 PB5
21 PB6
22


32 D0
31 D1
30 D2
29 D3
28 D4
27 D5
26 D6
25 D7
4 A0
3 A1
44 RD
34 WR
1 CS
RESET
33
PA0 43
PA1 42
PA2 41
PA3 40
PA4 38
PA5 37
PA6 36
PA7 35
PB0 14
PB1 15
PB2 16
PB3 18
PB4 19
PB5 20
PB6 21
PB7 23
PC0 9
PC1 10
PC2 11
PC3 13
PC4 8
PC5 7
PC6 6
PC7 5

A1	A0	$\overline{\text{CS}}$	$\overline{\text{WR}}$	$\overline{\text{RD}}$	OPERATION
0	0	0	1	0	PORT A → DATA BUS
0	1	0	1	0	PORT B → DATA BUS
1	0	0	1	0	PORT C → DATA BUS
1	1	0	1	0	NO OPERATION
0	0	0	0	1	DATA BUS → PORT A
0	1	0	0	1	DATA BUS → PORT B
1	0	0	0	1	DATA BUS → PORT C
1	1	0	0	1	DATA BUS → CONTROL REGISTER
X	X	1	X	X	HIGH IMPEDANCE

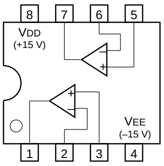
0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE

A0, A1 ; PORT SELECT ADDRESS
$\overline{\text{CS}}$; CHIP SELECT
D0 to 7 ; DATA BUS
PA0 to 7 ; PORT A IN/OUT
PB0 to 7 ; PORT B IN/OUT
PC0 to 7 ; PORT C IN/OUT
$\overline{\text{RD}}$; READ
$\overline{\text{WR}}$; WRITE


GROUP A CONTROL
DATA BUS BUFFER
D0 to D7
RD
WR
RESET
CS
A0
A1
READ/ WRITE CONTROL LOGIC
GROUP B CONTROL
GROUP A PORT A
PA0 to PA7
GROUP A PORT C (HIGHER 4-BITS)
PC4 to PC7
GROUP B PORT C (LOWER 4-BITS)
PC0 to PC3
GROUP B PORT B
PB0 to PB7

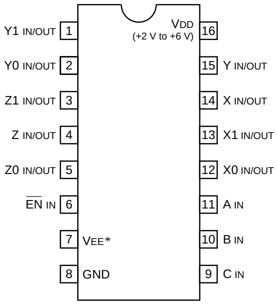
NJM2043M-D(JRC)FLAT PACKAGE
NJM4560M(JRC)FLAT PACKAGE
UPC4558G2(NEC)FLAT PACKAGE

DUAL OPERATIONAL AMPLIFIER
— TOP VIEW —

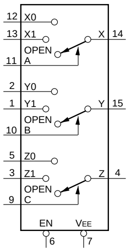

8
7
6
5
VDD (+15 V)
VEE (–15 V)
1
2
3
4

MC74HC4053F(MOTOROLA)FLAT PACKAGE

C-MOS TRIPLE 2-CHANNEL ANALOG MULTIPLEXER/DEMULTIPLEXER
— TOP VIEW —


Y1 IN/OUT 1
Y0 IN/OUT 2
Z1 IN/OUT 3
Z IN/OUT 4
Z0 IN/OUT 5
EN IN 6
7 VEE*
8 GND
VDD (+2 V to +6 V) 16
15 Y IN/OUT
14 X IN/OUT
13 X1 IN/OUT
12 X0 IN/OUT
11 A IN
10 B IN
9 C IN

VEE*; VDD – VEE = +3 V to +12 V
VEE ≦ GND

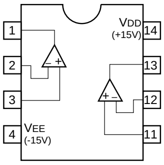

12 X0
13 X1
OPEN
11 A
X 14
2 Y0
1 Y1
OPEN
10 B
Y 15
5 Z0
3 Z1
OPEN
9 C
Z 4
EN
VEE
6
7

CONTROL INPUTS				ON CHANNEL		
EN	SELECT					
	C	B	A			
0	0	0	0	Z0	Y0	X0
0	0	0	1	Z0	Y0	X1
0	0	1	0	Z0	Y1	X0
0	0	1	1	Z0	Y1	X1
0	1	0	0	Z1	Y0	X0
0	1	0	1	Z1	Y0	X1
0	1	1	0	Z1	Y1	X0
0	1	1	1	Z1	Y1	X1
1	X	X	X	OPEN		

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE

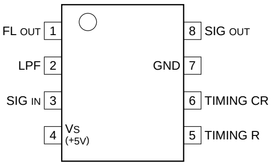
NJM4556M(JRC)FLAT PACKAGE

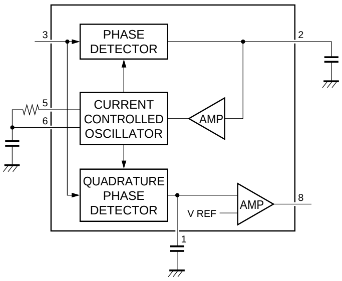
OPERATIONAL AMPLIFIER
(WIDE BAND, DECOMPENSATED)
—TOP VIEW—


1
2
3
4
VEE (-15V)
VDD (+15V) 14
13
12
11

NJM567M(JRC)FLAT PACKAGE

TONE DECODER
-TOP VIEW-

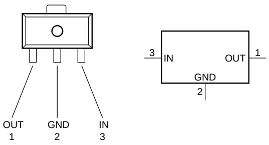

FL OUT 1
LPF 2
SIG IN 3
4 VS (+5V)
8 SIG OUT
GND 7
6 TIMING CR
5 TIMING R


3
PHASE DETECTOR
2
5
6
CURRENT CONTROLLED OSCILLATOR
AMP
QUADRATURE PHASE DETECTOR
V REF
AMP
8
1

NJM78L05UA(JRC)+5 V(100 mA)
NJM78L09UA(JRC)+9 V(100 mA)

POSITIVE VOLTAGE REGULATOR

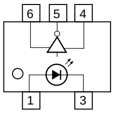
-SIDE VIEW-


OUT
1
GND
2
IN
3
3
IN
OUT
1
GND
2

PC410(SHARP)FLAT PACKAGE

OPIC-OUTPUT PHOTO COUPLER

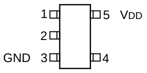
—TOP VIEW—

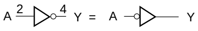


SC7S04F(MOTOROLA)CHIP PACKAGE
TC4S69F(TOSHIBA)CHIP PACKAGE

C-MOS INVERTER

—TOP VIEW—


1
2
GND 3
5 VDD
4



$Y = \overline{A}$

A	Y
0	1
1	0

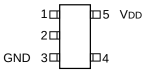
0 ; LOW LEVEL
1 ; HIGH LEVEL

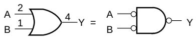
TYPE	VDD
7S04F 7SU04F 7SU04FU	+2 to +6V
4S69F 4SU69F	+3 to +18V
7SH04FU	+2 to +5.5V

SC7S32F(MOTOROLA)CHIP PACKAGE

C-MOS 2-INPUT OR GATE

—TOP VIEW—


1
2
GND 3
5 VDD
4



$Y = A + B = \overline{\overline{A} \cdot \overline{B}}$

A	B	Y
0	0	0
0	1	1
1	0	1
1	1	1

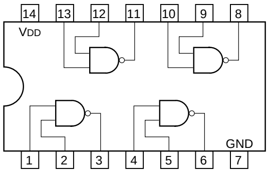
0 ; LOW LEVEL
1 ; HIGH LEVEL

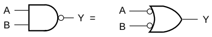
TYPE	VDD
7S32F 7S32FU	+2 to +6V
4S71F	+3 to +18V
7SH32FU	–2 to +5.5V

SN74HC00ANS(TI)FLAT PACKAGE

C-MOS QUAD 2-INPUT NAND GATES

—TOP VIEW—


14
13
12
11
10
9
8
VDD
GND
1
2
3
4
5
6
7



$Y = \overline{A \cdot B} = \overline{A} + \overline{B}$

A	B	Y
0	0	1
0	1	1
1	0	1
1	1	0

0 ; LOW LEVEL
1 ; HIGH LEVEL

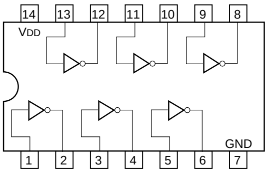
NOTE:

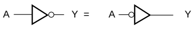
TYPE	VDD
TC74AC00 TYPE TC74VHC00	+2 to +5.5V
MC74HCT00N	+5V
74ACT00 TYPE	+4.5 to +5.5V
OTHER TYPES	+2 to +6V

SN74HC04ANS(TI)FLAT PACKAGE

C-MOS HEX INVERTERS

—TOP VIEW—


14
13
12
11
10
9
8
VDD
GND
1
2
3
4
5
6
7



$Y = \overline{A}$

A	Y
0	1
1	0

0 ; LOW LEVEL
1 ; HIGH LEVEL

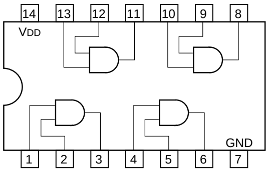
NOTE:

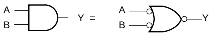
TYPE	VDD
74HCT04 TYPE	+5V
TC74AC04 TYPE TC74VHC04 TYPE	+2 to +5.5V
74ACT04 TYPE	+4.5 to +5.5V
OTHER TYPES	+2 to +6V

SN74HC08ANS(TI)FLAT PACKAGE

C-MOS QUAD 2-INPUT AND GATES

—TOP VIEW—


14
13
12
11
10
9
8
VDD
GND
1
2
3
4
5
6
7



$Y = A \cdot B = \overline{\overline{A} + \overline{B}}$

A	B	Y
0	0	0
0	1	0
1	0	0
1	1	1

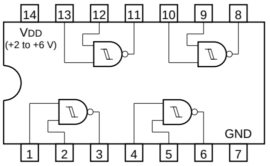
0 ; LOW LEVEL
1 ; HIGH LEVEL

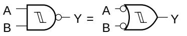
NOTE:

TYPE	VDD
TC74AC08 TYPE MC74ACT08M	+2 to +5.5V
TC40H	+2 to +8V
OTHER TYPES	+2 to +6V

SN74HC132ANS(TI)FLAT PACKAGE

C-MOS 2-INPUT NAND SCHMITT TRIGGER
—TOP VIEW—


14
13
12
11
10
9
8
VDD
(+2 to +6 V)
GND
1
2
3
4
5
6
7



$Y = \overline{A \cdot B} = \overline{A} + \overline{B}$

A	B	Y
0	0	1
0	1	1
1	0	1
1	1	0

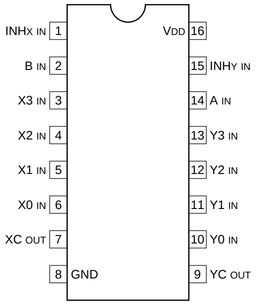
0 ; LOW LEVEL
1 ; HIGH LEVEL

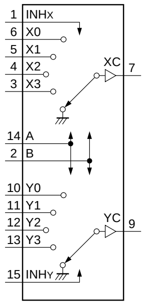
NOTE:

TYPE	VDD
HC	+2 to +6 V
VHC	+2 to +5.5 V

SN74HC153ANS(TI)FLAT PACKAGE

C-MOS DUAL 4-LINE-TO-1-LINE DATA SELECTOR/MULTIPLEXER
-TOP VIEW-


INHx IN 1
B IN 2
X3 IN 3
X2 IN 4
X1 IN 5
X0 IN 6
XC OUT 7
8 GND
VDD 16
15 INHY IN
14 A IN
13 Y3 IN
12 Y2 IN
11 Y1 IN
10 Y0 IN
9 YC OUT


1 INHx
6 X0
5 X1
4 X2
3 X3
XC 7
14 A
2 B
10 Y0
11 Y1
12 Y2
13 Y3
YC 9
15 INHY

NOTE:

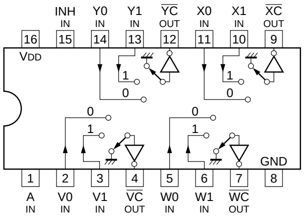
TYPE	VDD
ACT/HCT/FCT	+5V
40H	+2 to +8V
TC74AC/TC74VHC	+2 to +5.5V
OTHER TYPES	+2 to +6V

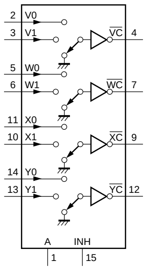
CONTROL IN			ON CHANNEL
INH	B	A	
0	0	0	0
0	0	1	1
0	1	0	2
0	1	1	3
1	X	X	GND

0 : LOW LEVEL
1 : HIGH LEVEL
X : DON'T CARE

SN74HC158ANS(TI)FLAT PACKAGE

C-MOS 2-LINE-TO-1-LINE INVERTED DATA SELECTOR/MULTIPLEXER
-TOP VIEW-


INH IN
Y0 IN
Y1 IN
$\overline{YC}$ OUT
X0 IN
X1 IN
$\overline{XC}$ OUT
16
15
14
13
12
11
10
9
VDD
1
0
GND
1
2
3
4
5
6
7
8
A IN
V0 IN
V1 IN
$\overline{VC}$ OUT
W0 IN
W1 IN
$\overline{WC}$ OUT


2 V0
3 V1
$\overline{VC}$ 4
5 W0
6 W1
$\overline{WC}$ 7
11 X0
10 X1
$\overline{XC}$ 9
14 Y0
13 Y1
$\overline{YC}$ 12
A
INH
1
15

CONT. IN		ON CHANNEL
INH	A	
0	0	0
0	1	1
1	X	GND

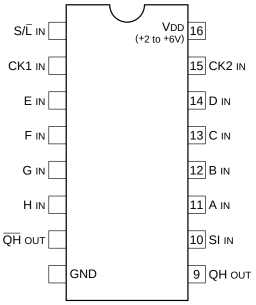
0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE

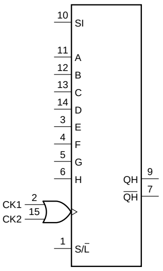
NOTE :

TYPE	VDD
74AC/HC	+2 to +6V
74ACT/HCT	+5V

SN74HC165ANS(TI)FLAT PACKAGE

C-MOS SERIAL-OR PARALLEL-INPUT SHIFT REGISTER
-TOP VIEW-

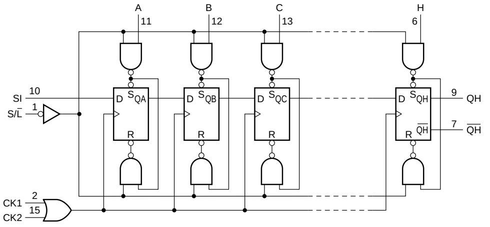

S/$\overline{L}$ IN
CK1 IN
E IN
F IN
G IN
H IN
$\overline{QH}$ OUT
GND
VDD (+2 to +6V) 16
15 CK2 IN
14 D IN
13 C IN
12 B IN
11 A IN
10 SI IN
9 QH OUT


10 SI
11 A
12 B
13 C
14 D
3 E
4 F
5 G
6 H
QH 9
$\overline{QH}$ 7
CK1 2
CK2 15
1 S/$\overline{L}$

SI ; SERIAL DATA IN
A-H ; PARALLEL DATA IN
CK1,CK2 ; CLOCK IN (↑)
S/$\overline{L}$; SHIFT/LOAD IN
QH $\overline{QH}$; 8th BIT OUT (COMPLEMENTALY)

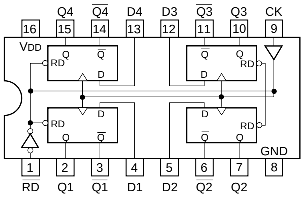
INPUTS				CONTENTS		OUTPUT	OPERATION
S/L	CK1+CK2	SI	A----------H	QA	QB-----	QH	
0	X	X	a----------h	a	b-----	h	PARALLEL LOAD
1	↑	0	X	0	QAo---	QGo	RIGHT SHIFT
1	↑	1	X	1	QAo---	QGo	
1	↓	X	X	QAo	QBo---	QHo	NO COUNT
1	0	X	X	QAo	QBo---	QHo	
1	1	X	X	QAo	QBo---	QHo	

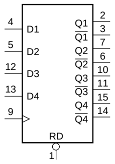
0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE
a-h ; LEVEL OF INPUTS A-H
QAo-QHo ; LEVEL OF QA-QH BEFORE THE INDICATED INPUT CONDITIONS WERE ESTABLISHED


A 11
B 12
C 13
H 6
SI 10
S/$\overline{L}$ 1
D S QA R
D S QB R
D S QC R
D S QH R $\overline{QH}$
9 QH
7 $\overline{QH}$
CK1 2
CK2 15

SN74HC175ANS(TI)FLAT PACKAGE

C-MOS QUAD D-TYPE FLIP-FLOPS WITH RESET
—TOP VIEW—


Q4
$\overline{Q4}$
D4
D3
$\overline{Q3}$
Q3
CK
16
15
14
13
12
11
10
9
VDD
GND
1
2
3
4
5
6
7
8
RD
Q1
$\overline{Q1}$
D1
D2
$\overline{Q2}$
Q2


4 D1
5 D2
12 D3
13 D4
9
Q1 2
$\overline{Q1}$ 3
Q2 7
$\overline{Q2}$ 6
Q3 10
$\overline{Q3}$ 11
Q4 15
$\overline{Q4}$ 14
RD
1

RD	CK	D	Q	$\overline{Q}$
0	X	X	0	1
1	↑	1	1	0
1	↑	0	0	1
1	0	X	Q0	$\overline{Q0}$

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE
Q0 ; NO CHANGE
$\overline{Q0}$; NO CHANGE

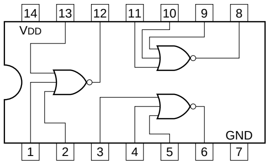
NOTE:

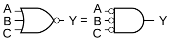
TYPE	VDD
AC TYPE	+2V to +5.5V
74ACT175 TYPE	+4.5V to 5.5V
OTHER TYPES	+2V to 6V

SN74HC27AN(TI)

C-MOS 3-LINE POSITIVE-NOR GATE

-TOP VIEW-


14
13
12
11
10
9
8
VDD
GND
1
2
3
4
5
6
7



$Y = \overline{A+B+C} = \bar{A}\cdot\bar{B}\cdot\bar{C}$

A	B	C	Y
0	0	0	1
0	0	1	0
0	1	0	0
0	1	1	0
1	0	0	0
1	0	1	0
1	1	0	0
1	1	1	0

NOTE :

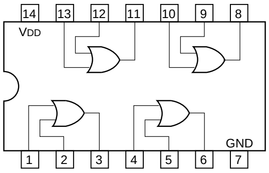
TYPE	V_{DD}
TC40H	+2 to +8V
OTHERS	+2 to +6V

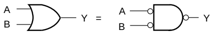
0 ; LOW LEVEL
1 ; HIGH LEVEL

SN74HC32ANS(TI)FLAT PACKAGE

C-MOS QUAD 2-INPUT OR GATES

—TOP VIEW—


14
13
12
11
10
9
8
VDD
GND
1
2
3
4
5
6
7



$Y = A + B = \overline{\bar{A} \bullet \bar{B}}$

A	B	Y
0	0	0
0	1	1
1	0	1
1	1	1

0 ; LOW LEVEL
1 ; HIGH LEVEL

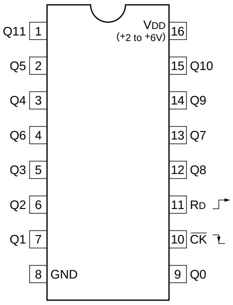
NOTE:

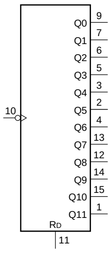
TYPE	V_{DD}
AC/VHC	+2 to +5.5V
HC	+2 to +6V

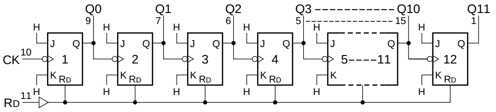
SN74HC4040ANS(TI)FLAT

C-MOS 12-STAGE RIPPLE CARRY BINARY COUNTER/DRIVER

-TOP VIEW-


Q11 1
Q5 2
Q4 3
Q6 4
Q3 5
Q2 6
Q1 7
8 GND
VDD (+2 to +6V) 16
15 Q10
14 Q9
13 Q7
12 Q8
11 RD
10 CK
9 Q0


10
Q0 9
Q1 7
Q2 6
Q3 5
Q4 3
Q5 2
Q6 4
Q7 13
Q8 12
Q9 14
Q10 15
Q11 1
RD
11


Q0
Q1
Q2
Q3
Q10
Q11
9
7
6
5
15
1
H
CK 10
RD 11
J
K
Q
RD
1
2
3
4
5-----11
12

COUNT	Q11	Q10	Q9	Q8	Q7	Q6	Q5	Q4	Q3	Q2	Q1	Q0
0	0	0	0	0	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	0	0	0	0	1
2	0	0	0	0	0	0	0	0	0	0	1	0
3	0	0	0	0	0	0	0	0	0	0	1	1
¦	¦	¦	¦	¦	¦	¦	¦	¦	¦	¦	¦	¦
¦	¦	¦	¦	¦	¦	¦	¦	¦	¦	¦	¦	¦
4095	1	1	1	1	1	1	1	1	1	1	1	1

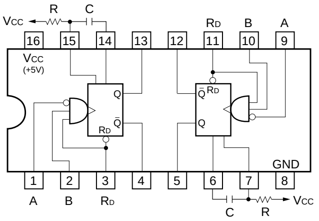
RD	Q11--------Q0
1	ALL LOW
0	COUNT

0 ; LOW LEVEL
1 ; HIGH LEVEL

SN74LS123NS(TI)FLAT PACKAGE

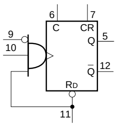
TTL RETRIGGERABLE MONOSTABLE MULTIVIBRATORS WITH DIRECT RESET

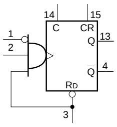
—TOP VIEW—


VCC
R
C
RD
B
A
16
15
14
13
12
11
10
9
VCC (+5V)
Q
RD
GND
1
2
3
4
5
6
7
8
A
B
RD
C
R
VCC

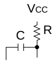
INPUTS			OUTPUTS	
R_D	A	B	Q	$\bar{Q}$
0	X	X	0	1
X	1	X	0	1
X	X	0	0	1
1	0	↑	⎍	⊔
1	↑	1	⎍	⊔
↑	0	1	⎍	⊔

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE


6
7
9
10
C
CR
Q
5
12
RD
11

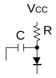

14
15
1
2
C
CR
Q
13
4
RD
3

OUTPUT PULSE WIDTH



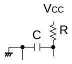
'123 ;$T_W=0.28\left(1+\frac{700}{R}\right)CR$

'L123;$T_W=0.33\left(1+\frac{700}{R}\right)CR$



'123 ;$T_W=0.25\left(1+\frac{700}{R}\right)CR$

'L123;$T_W=0.29\left(1+\frac{700}{R}\right)CR$

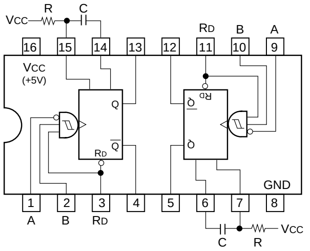


'LS123;$T_W=0.45CR$

SN74LS221NS(TI)FLAT PACKAGE

TTL MONOSTABLE MULTIVIBRATOR WITH SCHMITT TRIGGER INPUT

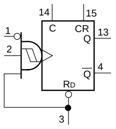
—TOP VIEW—

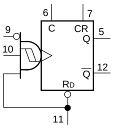

VCC
R
C
RD
B
A
16
15
14
13
12
11
10
9
VCC (+5V)
Q
RD
GND
1
2
3
4
5
6
7
8
A
B
RD
C
R
VCC

INPUTS			OUTPUTS	
R_D	A	B	Q	$\bar{Q}$
0	X	X	0	1
X	1	X	0	1
X	X	0	0	1
1	0	↑	⎍	⊔
1	↓	1	⎍	⊔
↑	0	1	⎍	⊔

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE

OUTPUT PULSE WIDTH = 0.7CR

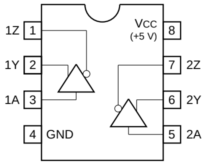

14
15
1
2
C
CR
Q
13
4
RD
3


6
7
9
10
C
CR
Q
5
12
RD
11

SN75158PS(TI)

DUAL DIFFERENTIAL LINE DRIVE

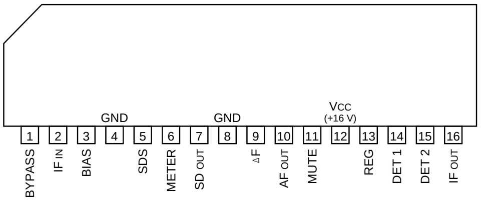
— TOP VIEW —

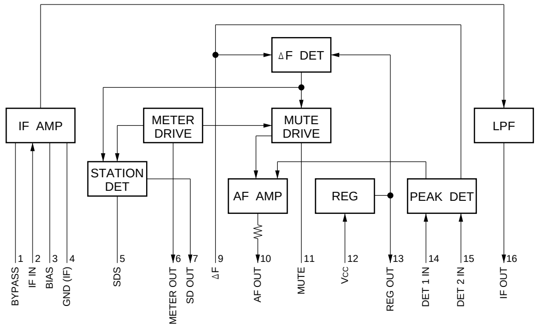

1Z 1
1Y 2
1A 3
4 GND
VCC (+5 V) 8
7 2Z
6 2Y
5 2A

TA8129Z(TOSHIBA)

FM IF SYSTEM (DIFFERENTIAL PEAK DETECT)

— SIDE VIEW —

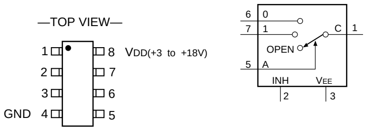

GND
GND
VCC (+16 V)
1 BYPASS
2 IF IN
3 BIAS
4
5 SDS
6 METER
7 SD OUT
8
9 ΔF
10 AF OUT
11 MUTE
12
13 REG
14 DET 1
15 DET 2
16 IF OUT


ΔF DET
IF AMP
METER DRIVE
MUTE DRIVE
LPF
STATION DET
AF AMP
REG
PEAK DET
1 BYPASS
2 IF IN
3 BIAS
4 GND (IF)
5 SDS
6 METER OUT
7 SD OUT
9 ΔF
10 AF OUT
11 MUTE
12 VCC
13 REG OUT
14 DET 1 IN
15 DET 2 IN
16 IF OUT

TC4W53F(TOSHIBA)CHIP PACKAGE(5.0 X 3.1)

C-MOS 2-CHANNEL MULTIPLEXER / DEMULTIPLEXER

—TOP VIEW—


1
2
3
GND 4
8 VDD(+3 to +18V)
7
6
5
6 0
7 1
C 1
OPEN
5 A
INH
VEE
2
3

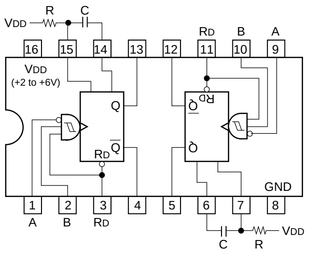
0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE

CONT.INPUT		ON CHANNEL
INH	A	
0	0	0
0	1	1
1	X	OPEN

TC74HC221AF(TOSHIBA)FLAT PACKAGE

C-MOS MONOSTABLE MULTIVIBRATOR WITH SCHMITT TRIGGER INPUT

—TOP VIEW—


VDD
R
C
16
15
14
13
12
11 RD
10 B
9 A
VDD (+2 to +6V)
Q
RD
Q̄
RD
Q̄
Q
GND
1 A
2 B
3 RD
4
5
6
7
8
C
R
VDD

INPUTS			OUTPUTS	
RD	A	B	Q	Q̄
0	X	X	0	1
X	1	X	0	1
X	X	0	0	1
1	0	↑	⊓	⊔
1	↓	1	⊓	⊔
↑	0	1	⊓	⊔

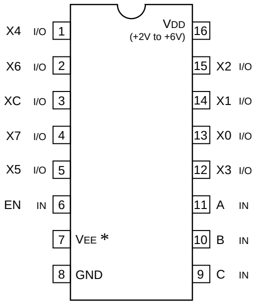
0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE

OUTPUT PULSE WIDTH = 0.7CR

TC74HC4051AF(MOTOROLA)FLAT PACKAGE

C-MOS 8-CHANNEL ANALOG MULTIPLEXER/DEMULTIPLEXER

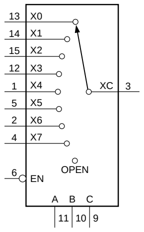
—TOP VIEW—


X4 I/O 1
X6 I/O 2
XC I/O 3
X7 I/O 4
X5 I/O 5
EN IN 6
7 VEE *
8 GND
VDD (+2V to +6V) 16
15 X2 I/O
14 X1 I/O
13 X0 I/O
12 X3 I/O
11 A IN
10 B IN
9 C IN

VEE * ; VDD – VEE=+3V to +12V

CONTROL INPUTS				SELECTED CHANNEL
EN	SELECT			
	C	B	A	
0	0	0	0	X0
0	0	0	1	X1
0	0	1	0	X2
0	0	1	1	X3
0	1	0	0	X4
0	1	0	1	X5
0	1	1	0	X6
0	1	1	1	X7
1	X	X	X	OPEN

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE

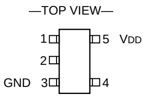

13 X0
14 X1
15 X2
12 X3
1 X4
5 X5
2 X6
4 X7
XC 3
6 EN
OPEN
A B C
11 10 9

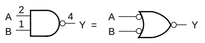
X0 to X7	;	ANALOG INPUTS/OUTPUTS
XC	;	COMMON INPUT/OUTPUT
A, B, C	;	CHANNEL SELECT INPUT
EN	;	ENABLE INPUT

TC7S08F(TOSHIBA)CHIP PACKAGE

C-MOS 2-INPUT AND GATE

—TOP VIEW—


1
2
GND 3
5 VDD
4



$Y = A \cdot B = \overline{\overline{A} + \overline{B}}$

A	B	Y
0	0	0
0	1	0
1	0	0
1	1	1

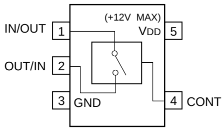
0 ; LOW LEVEL
1 ; HIGH LEVEL

TYPE	VDD
7S08F 7S08FU	+2 to +6V
4S81F 14S81F	+3 to +18V
7SH08FU	–2 to +5.5V

TC7S66F(TOSHIBA)

C-MOS ANALOG SWITCH

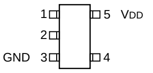
—TOP VIEW—

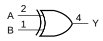

IN/OUT 1
OUT/IN 2
3 GND
(+12V MAX) VDD 5
4 CONT

TC4S30F(TOSHIBA)CHIP PACKAGE

C-MOS 2-INPUT EXCLUSIVE OR GATE

—TOP VIEW—


1
2
GND 3
5 VDD
4



$Y = \overline{A} \cdot B + A \cdot \overline{B}$

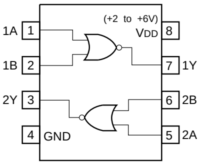
A	B	Y
0	0	0
0	1	1
1	0	1
1	1	0

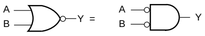
0 ; LOW LEVEL
1 ; HIGH LEVEL

TYPE	VDD
7S86FU 7S86F	+2 to +6V
4S30F	+3 to +18V

TC7W02F(TOSHIBA)FLAT PACKAGE

C-MOS DUAL 2-INPUT NOR GATE
—TOP VIEW—


(+2 to +6V)
VDD
1A 1
1B 2
2Y 3
4 GND
8
7 1Y
6 2B
5 2A



$Y = \overline{A + B} = \overline{A} \bullet \overline{B}$

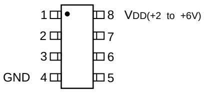
A	B	Y
0	0	1
0	1	0
1	0	0
1	1	0

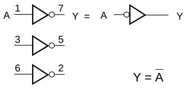
0 ; LOW LEVEL
1 ; HIGH LEVEL

TC7W04F(TOSHIBA)CHIP PACKAGE
TC7W04FU(TOSHIBA)CHIP PACKAGE

C-MOS HEX INVERTERS

—TOP VIEW—


1
2
3
GND 4
8 VDD(+2 to +6V)
7
6
5


A 1
7
Y =
A
Y
3
5
6
2

$Y = \overline{A}$

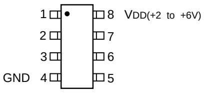
A	Y
0	1
1	0

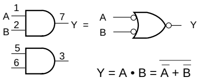
0 ; LOW LEVEL
1 ; HIGH LEVEL

TC7W08F(TOSHIBA)CHIP PACKAGE

C-MOS 2-INPUT AND GATE

—TOP VIEW—


1
2
3
GND 4
8 VDD(+2 to +6V)
7
6
5


1
A
2
B
7
Y =
A
B
Y
5
6
3

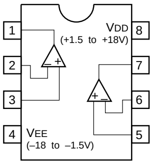
$Y = A \bullet B = \overline{\overline{A} + \overline{B}}$

A	B	Y
0	0	0
0	1	0
1	0	0
1	1	1

0 ; LOW LEVEL
1 ; HIGH LEVEL

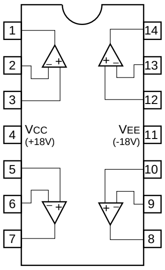
TL062CPS(TI)FLAT PACKAGE
TL082M(TI)

OPERATIONAL AMPLIFIER
(J FET INPUT)
—TOP VIEW—


1
2
3
4
VEE
(–18 to –1.5V)
VDD
(+1.5 to +18V)
8
7
6
5

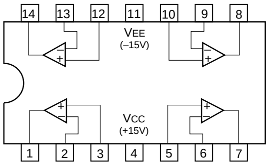
TL064CNS(TI)FLAT PACKAGE

OPERATIONAL AMPLIFIER
(J FET INPUT)
—TOP VIEW—


1
2
3
4
VCC
(+18V)
5
6
7
14
13
12
VEE
(-18V)
11
10
9
8

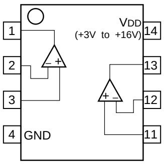
TL084CNS(TI)FLAT PACKAGE

OPERATIONAL AMPLIFIER
(J FET INPUT)
—TOP VIEW—


14
13
12
11
10
9
8
VEE
(–15V)
VCC
(+15V)
1
2
3
4
5
6
7

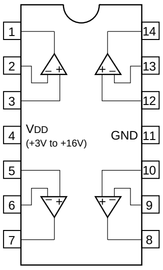
TLC272CPS(TI)FLAT PACKAGE

OPERATIONAL AMPLIFIER
—TOP VIEW—


1
2
3
4 GND
VDD
(+3V to +16V)
14
13
12
11

TLC274CNS(TI)FLAT PACKAGE

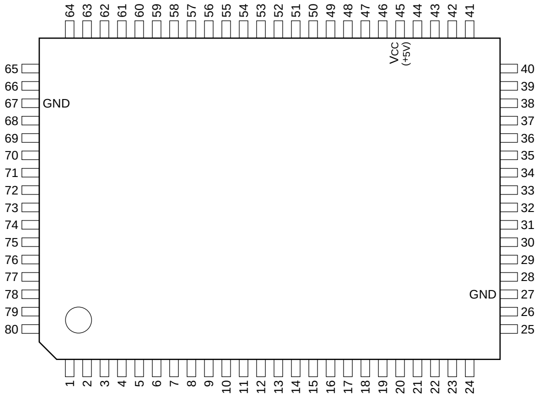
C-MOS OPERATIONAL AMPLIFIER
—TOP VIEW—


1
2
3
4
VDD
(+3V to +16V)
5
6
7
14
13
12
GND
11
10
9
8

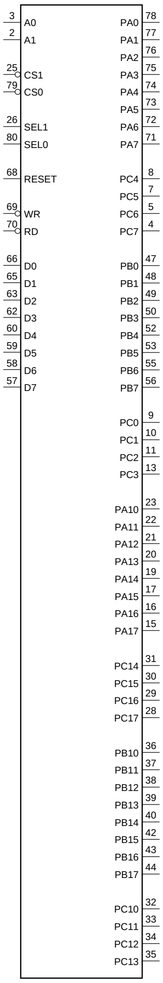
TMP82C265BF-2(5MHz)(TOSHIBA)FLAT PACKAGE

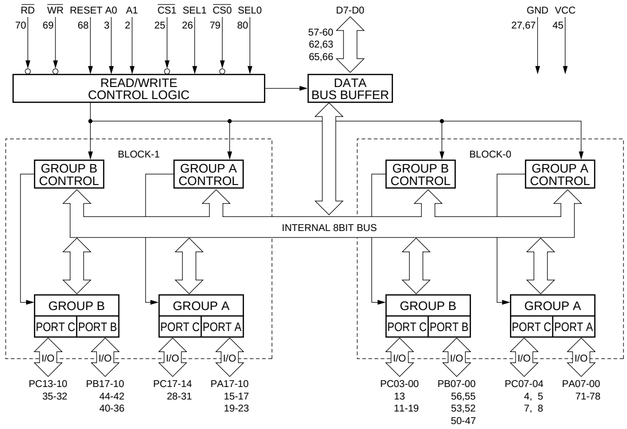
C-MOS PROGRAMMABLE PERIPHERAL INTERFACE

-TOP VIEW-


64 63 62 61 60 59 58 57 56 55 54 53 52 51 50 49 48 47 46 45 44 43 42 41
VCC (+5V)
65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80
GND
40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 25
GND
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL
1	–	NC	21	I/O	PA12	41	–	NC	61	–	NC
2	I	A1	22	I/O	PA11	42	I/O	PB15	62	I/O	D3
3	I	A0	23	I/O	PA10	43	I/O	PB16	63	I/O	D2
4	I/O	PC07	24	–	NC	44	I/O	PB17	64	–	NC
5	I/O	PC06	25	I	$\overline{\text{CS1}}$	45	–	Vcc	65	I/O	D1
6	–	NC	26	I	SEL1	46	–	NC	66	I/O	D0
7	I/O	PC05	27	–	GND	47	I/O	PB00	67	–	GND
8	I/O	PC04	28	I/O	PC17	48	I/O	PB01	68	I	RESET
9	I/O	PC00	29	I/O	PC16	49	I/O	PB02	69	I	$\overline{\text{WR}}$
10	I/O	PC01	30	I/O	PC15	50	I/O	PB03	70	I	$\overline{\text{RD}}$
11	I/O	PC02	31	I/O	PC14	51	–	NC	71	I/O	PA7
12	–	NC	32	I/O	PC10	52	I/O	PB04	72	I/O	PA6
13	I/O	PC03	33	I/O	PC11	53	I/O	PB05	73	I/O	PA5
14	–	NC	34	I/O	PC12	54	–	NC	74	I/O	PA4
15	I/O	PA17	35	I/O	PC13	55	I/O	PB06	75	I/O	PA3
16	I/O	PA16	36	I/O	PB10	56	I/O	PB07	76	I/O	PA2
17	I/O	PA15	37	I/O	PB11	57	I/O	D7	77	I/O	PA1
18	–	NC	38	I/O	PB12	58	I/O	D6	78	I/O	PA0
19	I/O	PA14	39	I/O	PB13	59	I/O	D5	79	I	$\overline{\text{CS0}}$
20	I/O	PA13	40	I/O	PB14	60	I/O	D4	80	I	SEL0


3 A0
2 A1
25 CS1
79 CS0
26 SEL1
80 SEL0
68 RESET
69 WR
70 RD
66 D0
65 D1
63 D2
62 D3
60 D4
59 D5
58 D6
57 D7
PA0 78
PA1 77
PA2 76
PA3 75
PA4 74
PA5 73
PA6 72
PA7 71
PC4 8
PC5 7
PC6 5
PC7 4
PB0 47
PB1 48
PB2 49
PB3 50
PB4 52
PB5 53
PB6 55
PB7 56
PC0 9
PC1 10
PC2 11
PC3 13
PA10 23
PA11 22
PA12 21
PA13 20
PA14 19
PA15 17
PA16 16
PA17 15
PC14 31
PC15 30
PC16 29
PC17 28
PB10 36
PB11 37
PB12 38
PB13 39
PB14 40
PB15 42
PB16 43
PB17 44
PC10 32
PC11 33
PC12 34
PC13 35


RD WR RESET A0 A1 CS1 SEL1 CS0 SEL0
70 69 68 3 2 25 26 79 80
D7-D0
57-60
62,63
65,66
GND VCC
27,67 45
READ/WRITE CONTROL LOGIC
DATA BUS BUFFER
BLOCK-1
BLOCK-0
GROUP B CONTROL
GROUP A CONTROL
GROUP B CONTROL
GROUP A CONTROL
INTERNAL 8BIT BUS
GROUP B
PORT C PORT B
GROUP A
PORT C PORT A
GROUP B
PORT C PORT B
GROUP A
PORT C PORT A
I/O I/O I/O I/O I/O I/O I/O I/O
PC13-10 35-32
PB17-10 44-42 40-36
PC17-14 28-31
PA17-10 15-17 19-23
PC03-00 13 11-19
PB07-00 56,55 53,52 50-47
PC07-04 4, 5 7, 8
PA07-00 71-78

INPUT

A0-A1 ; ADDRESS LINE
$\overline{\text{CS0}}$-$\overline{\text{CS1}}$; CHIP SELECT
$\overline{\text{RD}}$; READ CONTROL
R/$\overline{\text{W}}$; READ/WRITE CONTROL
RESET ; RESET
SEL ; GENERAL MODE/OUTPUT MODE SELECT CONTROL
$\overline{\text{WR}}$; WRITE CONTROL

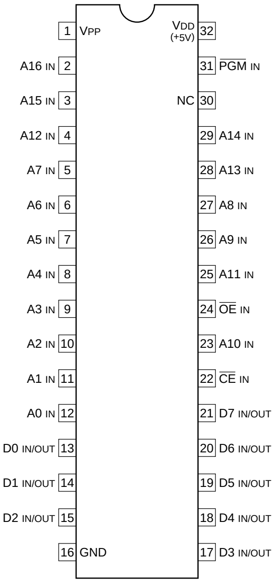
INPUT/OUTPUT

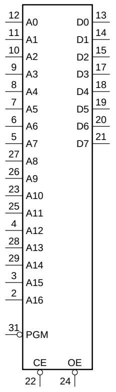
D0-D7 ; DATA BUS
PA0-PA17 ; INPUT/OUTPUT PORT A
PB0-PB17 ; INPUT/OUTPUT PORT B
PC0-PC17 ; INPUT/OUTPUT PORT C

http://getMANUAL.com

TMS27C010A-10JL(TI)

C-MOS 1M(131072×8)-BIT EPROM
-TOP VIEW-


1 VPP
2 A16 IN
3 A15 IN
4 A12 IN
5 A7 IN
6 A6 IN
7 A5 IN
8 A4 IN
9 A3 IN
10 A2 IN
11 A1 IN
12 A0 IN
13 D0 IN/OUT
14 D1 IN/OUT
15 D2 IN/OUT
16 GND
32 VDD (+5V)
31 PGM IN
30 NC
29 A14 IN
28 A13 IN
27 A8 IN
26 A9 IN
25 A11 IN
24 OE IN
23 A10 IN
22 CE IN
21 D7 IN/OUT
20 D6 IN/OUT
19 D5 IN/OUT
18 D4 IN/OUT
17 D3 IN/OUT


12 A0
11 A1
10 A2
9 A3
8 A4
7 A5
6 A6
5 A7
27 A8
26 A9
23 A10
25 A11
4 A12
28 A13
29 A14
3 A15
2 A16
31 PGM
D0 13
D1 14
D2 15
D3 17
D4 18
D5 19
D6 20
D7 21
CE 22
OE 24

A0-A16	;	ADDRESS INPUTS
D0-D7	;	DATA INPUTS/OUTPUTS
CE	;	CHIP ENABLE INPUT
OE	;	OUTPUT ENABLE INPUT
PGM	;	PROGRAM INPUT/OUTPUT ENABLE INPUT

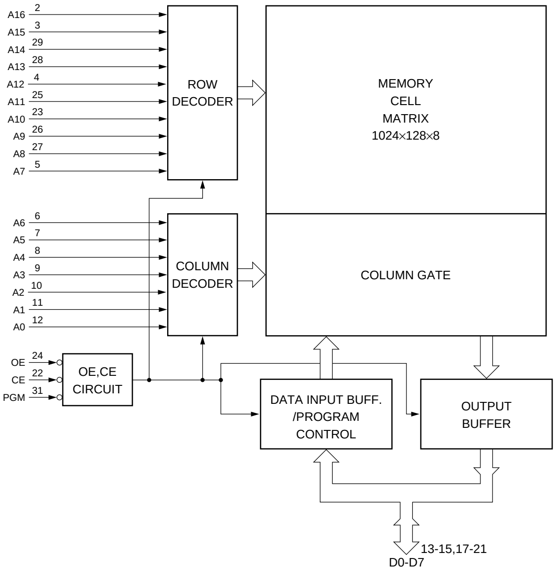
READ MODE(VDD = +5V,VPP = +5V)

OE	CE	PGM	A0-A16	D0-D7	FUNCTION
0	0	1	A IN	D OUT	ACTIVE
X	1	X	X	HI-Z	STANDBY
1	0	X	A IN	HI-Z	OUTPUT DISABLE
X	0	0	A IN		

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE
HI-Z ; HIGH-IMPEDANCE

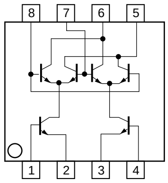
PROGRAM MODE(VDD = +6V,VPP = +12.5V)

MODE	OE	CE	PGM	A0-A16	D0-D7	FUNCTION
1-BYTE PROGRAM MODE	1	0	0	A IN	D IN	PROGRAM
	0	0	1	A IN	D OUT	VERIFY
	1	0	1	A IN	HI-Z	PROGRAM INHIBIT
4-BYTE PROGRAM MODE	1	1	1	A IN	D IN	PROGRAM DATA INPUT
	0	1	0	A0,A1 ; X A2-A16 ; A IN	HI-Z	PROGRAM
	0	0	1	A IN	D OUT	VERIFY
	0	1	1	A IN	HI-Z	PROGRAM INHIBIT


A16 2
A15 3
A14 29
A13 28
A12 4
A11 25
A10 23
A9 26
A8 27
A7 5
ROW DECODER
MEMORY CELL MATRIX 1024×128×8
A6 6
A5 7
A4 8
A3 9
A2 10
A1 11
A0 12
COLUMN DECODER
COLUMN GATE
OE 24
CE 22
PGM 31
OE,CE CIRCUIT
DATA INPUT BUFF. /PROGRAM CONTROL
OUTPUT BUFFER
13-15,17-21
D0-D7

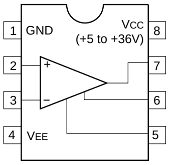
UPA101G(NEC)FLAT PACKAGE

TRANSISTOR ARRAY
—TOP VIEW—



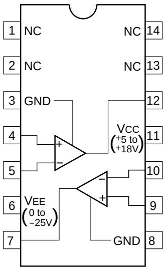
UPC311G2(NEC)FLAT PACKAGE

VOLTAGE COMPARATOR
-TOP VIEW-


1 GND
2
3
4 VEE
VCC (+5 to +36V) 8
7
6
5

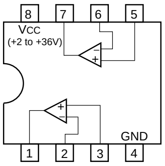
UPC319G2(NEC)FLAT PACKAGE

DUAL VOLTAGE COMPARATOR
-TOP VIEW-


1 NC
2 NC
3 GND
4
5
6 VEE (0 to −25V)
7
NC 14
NC 13
12
VCC (+5 to +18V) 11
10
9
GND 8

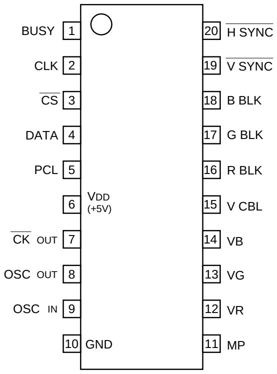
UPC393G2(NEC)FLAT PACKAGE

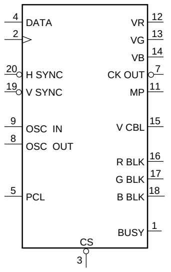
DUAL VOLTAGE COMPARATORS
—TOP VIEW—


8
7
6
5
VCC (+2 to +36V)
GND
1
2
3
4

UPD6453GT-610(NEC)FLAT PACKAGE

C-MOS ON-SCREEN CHARACTER DISPLAY
—TOP VIEW—


BUSY 1
CLK 2
$\overline{\text{CS}}$ 3
DATA 4
PCL 5
6 VDD (+5V)
$\overline{\text{CK}}$ OUT 7
OSC OUT 8
OSC IN 9
10 GND
20 $\overline{\text{H SYNC}}$
19 $\overline{\text{V SYNC}}$
18 B BLK
17 G BLK
16 R BLK
15 V CBL
14 VB
13 VG
12 VR
11 MP

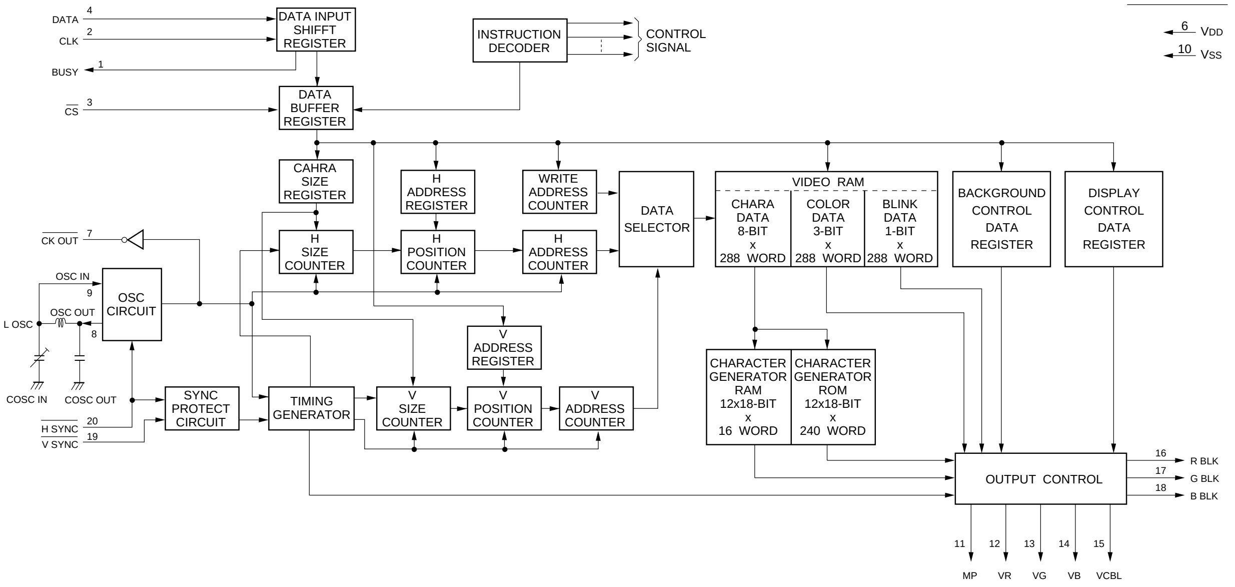

4 DATA
2
20 H SYNC
19 V SYNC
9 OSC IN
8 OSC OUT
5 PCL
VR 12
VG 13
VB 14
CK OUT 7
MP 11
V CBL 15
R BLK 16
G BLK 17
B BLK 18
BUSY 1
CS
3

INPUT

CLK	;	CLOCK
$\overline{\text{CS}}$	;	CHIP SELECT
DATA	;	SERIAL DATA
$\overline{\text{H SYNC}}$	;	HORIZONTAL SYNC
OSC IN	;	OSCILLATOR IN
PCL	;	POWER ON CLEAR
$\overline{\text{V SYNC}}$	;	VERTICAL SYNC

OUTPUT

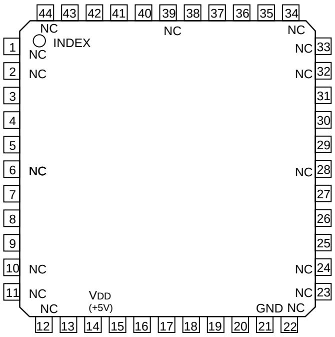
B_{BLK}, R_{BLK}, G_{BLK}	;	B, R, G, BLANKING
BUSY	;	BUSY OUT
$\overline{\text{CK OUT}}$	;	CLOCK
MP	;	MASK PULSE
OSC OUT	;	OSCILLATOR OUT
V_R, V_G, V_B	;	R, G, B, CHARACTER DATA
V_{CBL}	;	VIDEO CUT BLANKING

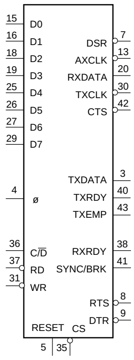

DATA 4
CLK 2
BUSY 1
$\overline{\text{CS}}$ 3
DATA INPUT SHIFFT REGISTER
INSTRUCTION DECODER
CONTROL SIGNAL
6 VDD
10 VSS
DATA BUFFER REGISTER
CAHRA SIZE REGISTER
H ADDRESS REGISTER
WRITE ADDRESS COUNTER
DATA SELECTOR
VIDEO RAM
CHARA DATA 8-BIT x 288 WORD
COLOR DATA 3-BIT x 288 WORD
BLINK DATA 1-BIT x 288 WORD
BACKGROUND CONTROL DATA REGISTER
DISPLAY CONTROL DATA REGISTER
$\overline{\text{CK OUT}}$ 7
OSC IN 9
OSC OUT 8
L OSC
COSC IN
COSC OUT
OSC CIRCUIT
H SIZE COUNTER
H POSITION COUNTER
H ADDRESS COUNTER
V ADDRESS REGISTER
CHARACTER GENERATOR RAM 12x18-BIT x 16 WORD
CHARACTER GENERATOR ROM 12x18-BIT x 240 WORD
$\overline{\text{H SYNC}}$ 20
V SYNC 19
SYNC PROTECT CIRCUIT
TIMING GENERATOR
V SIZE COUNTER
V POSITION COUNTER
V ADDRESS COUNTER
OUTPUT CONTROL
16 R BLK
17 G BLK
18 B BLK
11 MP
12 VR
13 VG
14 VB
15 VCBL

UPD71051G (NEC) FLAT PAKAGE

C-MOS SERIAL CONTROLLER

—TOP VIEW—

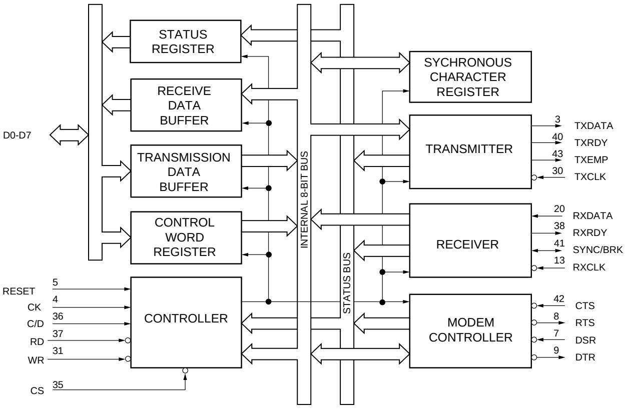

44 43 42 41 40 39 38 37 36 35 34
NC
NC
NC
INDEX
1 NC
2 NC
3
4
5
6 NC
7
8
9
10 NC
11 NC
NC
VDD
(+5V)
GND NC
33 NC
32 NC
31
30
29
28 NC
27
26
25
24 NC
23 NC
12 13 14 15 16 17 18 19 20 21 22


15 D0
16 D1
18 D2
19 D3
25 D4
26 D5
27 D6
29 D7
4 ø
36 C/D̄
37 RD
31 WR
DSR 7
AXCLK 13
RXDATA 20
TXCLK 30
CTS 42
TXDATA 3
TXRDY 40
TXEMP 43
RXRDY 38
SYNC/BRK 41
RTS 8
DTR 9
RESET CS
5 35

PIN No.	I/O	SYMBOL	PIN No.	I/O	SYMBOL	PIN No.	I/O	SYMBOL	PIN No.	I/O	SYMBOL
1	—	NC	12	—	NC	23	—	NC	34	—	NC
2	—	NC	13	I	RXCLK	24	—	NC	35	I	CS
3	O	TXDATA	14	—	VDD(+5V)	25	I/O	D4	36	I	C/D̄
4	I	CK	15	I/O	D0	26	I/O	D5	37	I	RD
5	I	RESET	16	I/O	D1	27	I/O	D6	38	O	RXRDY
6	—	NC	17	—	IC	28	—	NC	39	—	NC
7	I	DSR	18	I/O	D2	29	I/O	D7	40	O	TXRDY
8	O	RTS	19	I/O	D3	30	I	TXCLK	41	I/O	SYNC/BRK
9	O	DTR	20	I	RXDATA	31	I	WR	42	I	CTS
10	—	NC	21	—	GND	32	—	NC	43	O	TXEMP
11	—	NC	22	—	NC	33	—	NC	44	—	NC

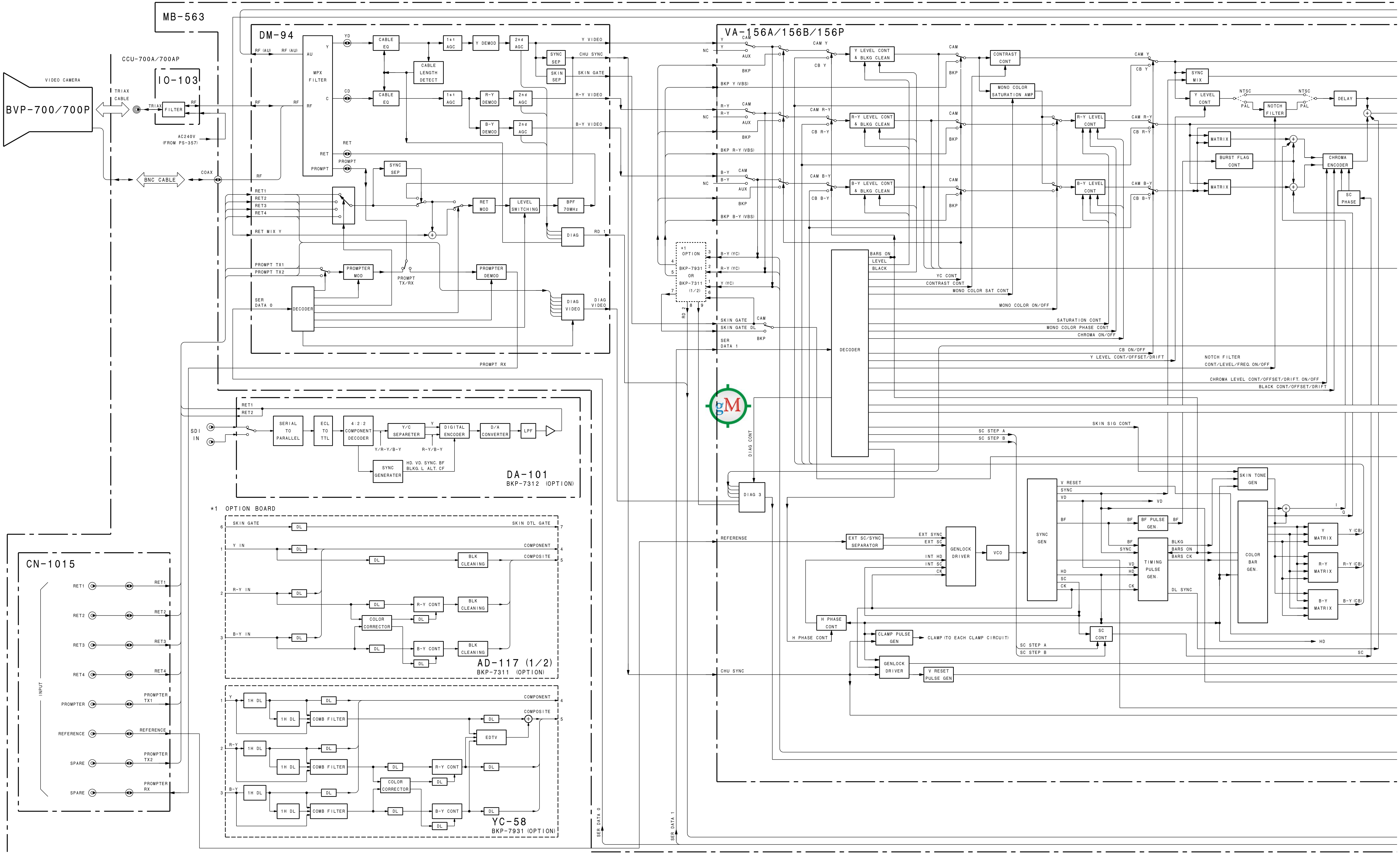
CS ; CHIP SELECT INPUT
CTS ; CLEAR TO SEND OUTPUT
C/D̄ ; CONTROL/DATA SELECT INPUT
D0-D7 ; DATA INPUTS/OUTPUTS
DSR ; DATA SET READY INPUT
DTR ; DATA TERMINAL READY OUTPUT
TXCLK ; TRANSMITTER CLOCK INPUT
TXDATA ; TRANSMIT DATA OUTPUT
TXEMP ; TRANSMITTER EMPTY OUTPUT

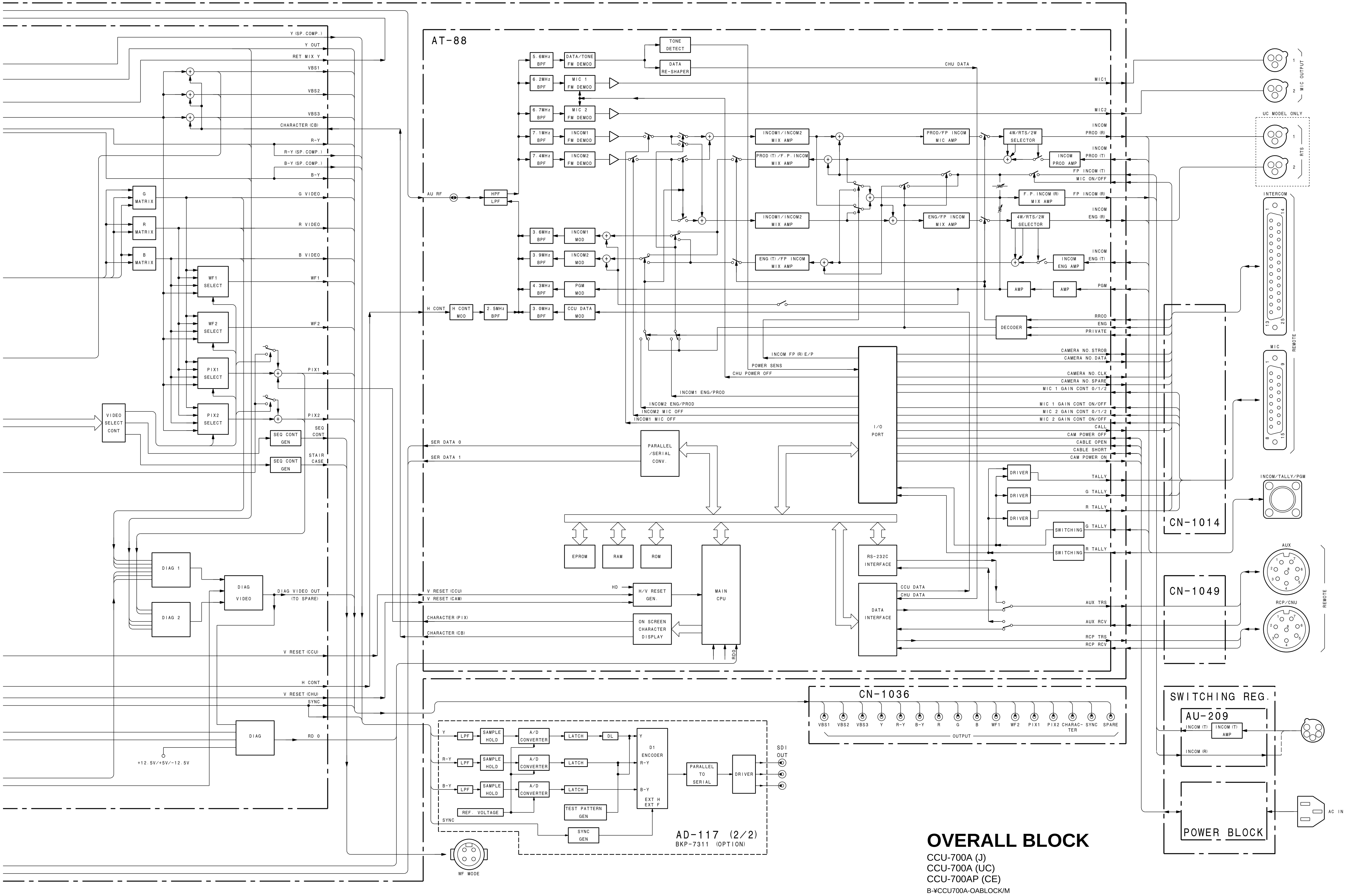
TXRDY ; TRANSMIT READY OUTPUT
RD ; READ STROBE INPUT
RESET ; RESET INPUT
RTS ; REQUEST TO SEND OUTPUT
RXCLK ; RECEIVER CLOCK INPUT
RXDATA ; RECEIVE DATA INPUT
RXRDY ; RECEIVER READY OUTPUT
SYNC/BRK ; SYNCHRONIZATION/BREAK INPUT/OUTPUT
WR ; WRITE STROBE INPUT


STATUS REGISTER
RECEIVE DATA BUFFER
TRANSMISSION DATA BUFFER
CONTROL WORD REGISTER
CONTROLLER
D0-D7
RESET 5
CK 4
C/D 36
RD 37
WR 31
CS 35
INTERNAL 8-BIT BUS
STATUS BUS
SYCHRONOUS CHARACTER REGISTER
TRANSMITTER
3 TXDATA
40 TXRDY
43 TXEMP
30 TXCLK
RECEIVER
20 RXDATA
38 RXRDY
41 SYNC/BRK
13 RXCLK
MODEM CONTROLLER
42 CTS
8 RTS
7 DSR
9 DTR

Section 3
Block Diagrams

OVERALL BLOCK

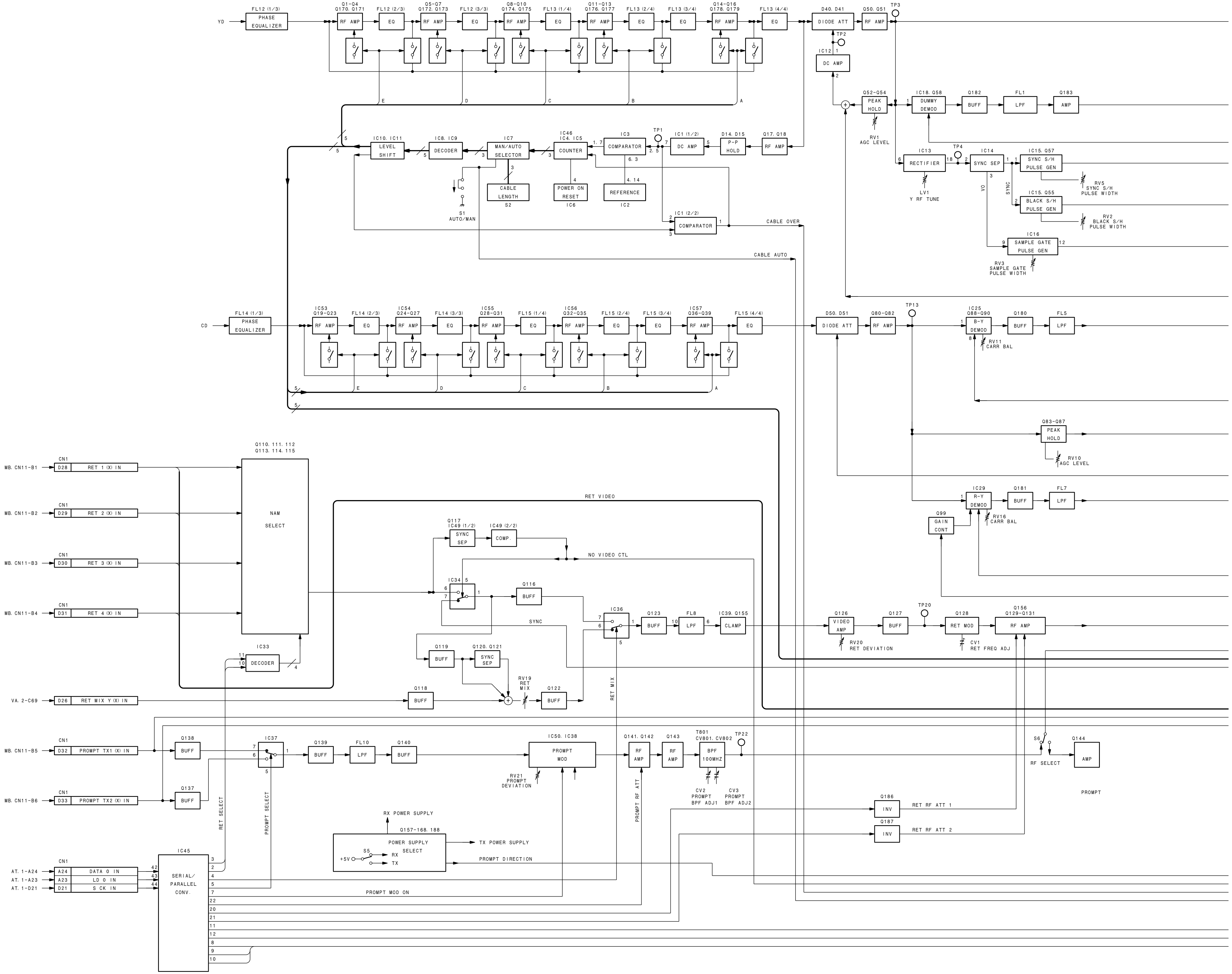

MB-563
DM-94
VA-156A/156B/156P
IO-103
CCU-700A/700AP
VIDEO CAMERA
BVP-700/700P
TRIAX CABLE
FILTER
AC240V (FROM PS-357)
BNC CABLE
COAX
MPX FILTER
CABLE EQ
CABLE LENGTH DETECT
1st AGC
Y DEMOD
2nd AGC
R-Y DEMOD
B-Y DEMOD
SYNC SEP
SKIN SEP
Y VIDEO
CHU SYNC
SKIN GATE
R-Y VIDEO
B-Y VIDEO
RET1
RET2
RET3
RET4
RET MIX Y
RET MOD
LEVEL SWITCHING
BPF 70MHz
DIAG
RD 1
PROMPT TX1
PROMPT TX2
PROMPTER MOD
PROMPT TX/RX
PROMPTER DEMOD
SER DATA 0
DECODER
DIAG VIDEO
PROMPT RX
Y LEVEL CONT & BLKG CLEAN
R-Y LEVEL CONT & BLKG CLEAN
B-Y LEVEL CONT & BLKG CLEAN
CONTRAST CONT
MONO COLOR SATURATION AMP
R-Y LEVEL CONT
B-Y LEVEL CONT
SYNC MIX
Y LEVEL CONT
NOTCH FILTER
DELAY
MATRIX
BURST FLAG CONT
CHROMA ENCODER
SC PHASE
*1 OPTION BKP-7931 OR BKP-7311 (1/2)
SKIN GATE
SKIN GATE DL
SER DATA 1
BARS ON
LEVEL
BLACK
YC CONT
CONTRAST CONT
MONO COLOR SAT CONT
MONO COLOR ON/OFF
SATURATION CONT
MONO COLOR PHASE CONT
CHROMA ON/OFF
CB ON/OFF
Y LEVEL CONT/OFFSET/DRIFT
NOTCH FILTER CONT/LEVEL/FREQ. ON/OFF
CHROMA LEVEL CONT/OFFSET/DRIFT. ON/OFF
BLACK CONT/OFFSET/DRIFT
SKIN SIG CONT
SC STEP A
SC STEP B
DIAG CONT
DIAG 3
SKIN TONE GEN
V RESET
SYNC GEN
BF PULSE GEN.
TIMING PULSE GEN.
COLOR BAR GEN.
Y MATRIX
R-Y MATRIX
B-Y MATRIX
REFERENSE
EXT SC/SYNC SEPARATOR
GENLOCK DRIVER
VCO
H PHASE CONT
CLAMP PULSE GEN
CLAMP (TO EACH CLAMP CIRCUIT)
SC CONT
GENLOCK DRIVER
V RESET PULSE GEN
CHU SYNC
SDI IN
SERIAL TO PARALLEL
ECL TO TTL
4:2:2 COMPONENT DECODER
Y/C SEPARETER
DIGITAL ENCODER
D/A CONVERTER
LPF
SYNC GENERATOR
DA-101
BKP-7312 (OPTION)
*1 OPTION BOARD
SKIN DTL GATE
COMPONENT
COMPOSITE
BLK CLEANING
R-Y CONT
B-Y CONT
COLOR CORRECTOR
AD-117 (1/2)
BKP-7311 (OPTION)
1H DL
COMB FILTER
EDTV
YC-58
BKP-7931 (OPTION)
CN-1015
INPUT
RET1
RET2
RET3
RET4
PROMPTER
REFERENCE
SPARE
PROMPTER TX1
PROMPTER TX2
PROMPTER RX

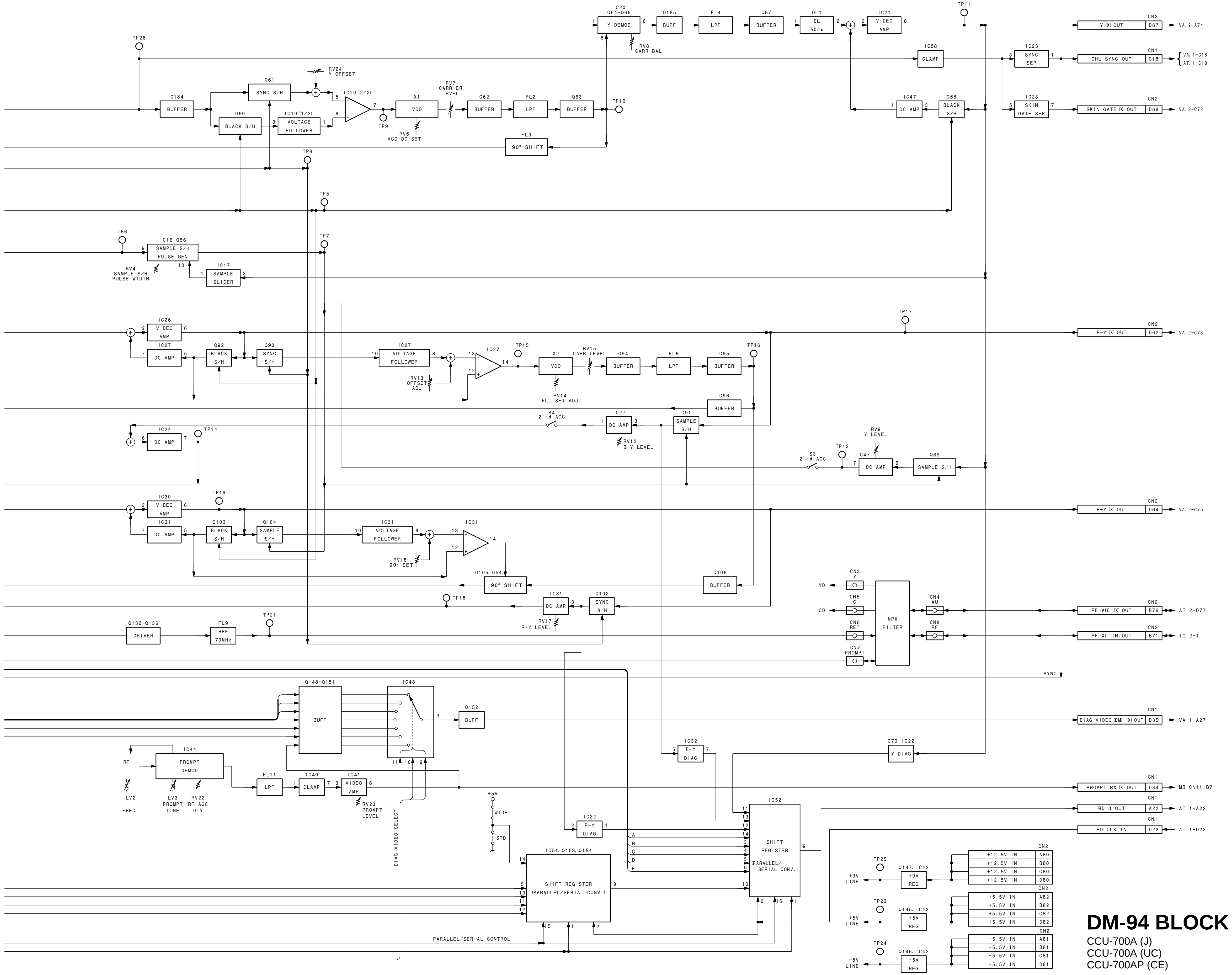

AT-88
Y (SP. COMP.)
Y OUT
RET MIX Y
VBS1
VBS2
VBS3
CHARACTER (CB)
R-Y
R-Y (SP. COMP.)
B-Y (SP. COMP.)
B-Y
G VIDEO
R VIDEO
B VIDEO
WF1
WF2
PIX1
PIX2
SEQ CONT
STAIR CASE
G MATRIX
R MATRIX
B MATRIX
WF1 SELECT
WF2 SELECT
PIX1 SELECT
PIX2 SELECT
VIDEO SELECT CONT
SEQ CONT GEN
DIAG 1
DIAG 2
DIAG VIDEO
DIAG VIDEO OUT (TO SPARE)
V RESET (CCU)
H CONT
V RESET (CHU)
SYNC
DIAG
RD 0
+12.5V/+5V/-12.5V
AU RF
HPF
LPF
5.6MHz BPF
6.2MHz BPF
6.7MHz BPF
7.1MHz BPF
7.4MHz BPF
DATA/TONE FM DEMOD
MIC 1 FM DEMOD
MIC 2 FM DEMOD
INCOM1 FM DEMOD
INCOM2 FM DEMOD
TONE DETECT
DATA RE-SHAPER
CHU DATA
MIC1
MIC2
3.6MHz BPF
3.9MHz BPF
4.3MHz BPF
3.0MHz BPF
2.5MHz BPF
H CONT MOD
INCOM1 MOD
INCOM2 MOD
PGM MOD
CCU DATA MOD
INCOM1/INCOM2 MIX AMP
PROD (T)/F.P. INCOM MIX AMP
ENG (T)/FP INCOM MIX AMP
PROD/FP INCOM MIC AMP
ENG/FP INCOM MIX AMP
4W/RTS/2W SELECTOR
INCOM PROD AMP
F.P. INCOM (R) MIX AMP
INCOM ENG AMP
AMP
DECODER
INCOM PROD (R)
INCOM PROD (T)
FP INCOM (T)
MIC ON/OFF
FP INCOM (R)
INCOM ENG (R)
INCOM ENG (T)
PGM
RROD
ENG
PRIVATE
INCOM FP (R) E/P
POWER SENS
CHU POWER OFF
INCOM1 ENG/PROD
INCOM2 ENG/PROD
INCOM2 MIC OFF
INCOM1 MIC OFF
CAMERA NO. STROB
CAMERA NO. DATA
CAMERA NO. CLK
CAMERA NO. SPARE
MIC 1 GAIN CONT 0/1/2
MIC 1 GAIN CONT ON/OFF
MIC 2 GAIN CONT 0/1/2
MIC 2 GAIN CONT ON/OFF
CALL
CAM POWER OFF
CABLE OPEN
CABLE SHORT
CAM POWER ON
I/O PORT
SER DATA 0
SER DATA 1
PARALLEL /SERIAL CONV.
DRIVER
TALLY
G TALLY
R TALLY
SWITCHING
EPROM
RAM
ROM
MAIN CPU
RS-232C INTERFACE
DATA INTERFACE
CCU DATA
CHU DATA
AUX TRS
AUX RCV
RCP TRS
RCP RCV
HD
H/V RESET GEN.
V RESET (CCU)
V RESET (CAM)
CHARACTER (PIX)
CHARACTER (CB)
ON SCREEN CHARACTER DISPLAY
RDO
MIC OUTPUT
UC MODEL ONLY
RTS
INTERCOM
MIC
REMOTE
CN-1014
INCOM/TALLY/PGM
AUX
RCP/CNU
CN-1049
CN-1036
VBS1 VBS2 VBS3 Y R-Y B-Y R G B WF1 WF2 PIX1 PIX2 CHARAC-TER SYNC SPARE
OUTPUT
SWITCHING REG.
AU-209
INCOM (T)
INCOM (T) AMP
INCOM (R)
POWER BLOCK
AC IN
Y
R-Y
B-Y
LPF
SAMPLE HOLD
A/D CONVERTER
LATCH
DL
D1 ENCODER
EXT H
EXT F
PARALLEL TO SERIAL
DRIVER
SDI OUT
REF. VOLTAGE
TEST PATTERN GEN
SYNC GEN
SYNC
AD-117 (2/2)
BKP-7311 (OPTION)
WF MODE

OVERALL BLOCK

CCU-700A (J)
CCU-700A (UC)
CCU-700AP (CE)
B-¥CCU700A-OABLOCK/M

DM-94 BOARD


YD
FL12 (1/3) PHASE EQUALIZER
Q1-Q4 Q170, Q171 RF AMP
FL12 (2/3) EQ
Q5-Q7 Q172, Q173 RF AMP
FL12 (3/3) EQ
Q8-Q10 Q174, Q175 RF AMP
FL13 (1/4) EQ
Q11-Q13 Q176, Q177 RF AMP
FL13 (2/4) EQ
FL13 (3/4) EQ
Q14-Q16 Q178, Q179 RF AMP
FL13 (4/4) EQ
D40, D41 DIODE ATT
Q50, Q51 RF AMP
TP3
TP2
IC12 DC AMP
Q52-Q54 PEAK HOLD
RV1 AGC LEVEL
IC18, Q58 DUMMY DEMOD
Q182 BUFF
FL1 LPF
Q183 AMP
E D C B A
IC10, IC11 LEVEL SHIFT
IC8, IC9 DECODER
IC7 MAN/AUTO SELECTOR
IC46 IC4, IC5 COUNTER
IC3 COMPARATOR
TP1
IC1 (1/2) DC AMP
D14, D15 P-P HOLD
Q17, Q18 RF AMP
CABLE LENGTH S2
POWER ON RESET IC6
REFERENCE IC2
S1 AUTO/MAN
IC1 (2/2) COMPARATOR
CABLE OVER
CABLE AUTO
IC13 RECTIFIER
LV1 Y RF TUNE
TP4
IC14 SYNC SEP
IC15, Q57 SYNC S/H PULSE GEN
RV5 SYNC S/H PULSE WIDTH
IC15, Q55 BLACK S/H PULSE GEN
RV2 BLACK S/H PULSE WIDTH
IC16 SAMPLE GATE PULSE GEN
RV3 SAMPLE GATE PULSE WIDTH
VD
SYNC
CD
FL14 (1/3) PHASE EQUALIZER
IC53 Q19-Q23 RF AMP
FL14 (2/3) EQ
IC54 Q24-Q27 RF AMP
FL14 (3/3) EQ
IC55 Q28-Q31 RF AMP
FL15 (1/4) EQ
IC56 Q32-Q35 RF AMP
FL15 (2/4) EQ
FL15 (3/4) EQ
IC57 Q36-Q39 RF AMP
FL15 (4/4) EQ
D50, D51 DIODE ATT
Q80-Q82 RF AMP
TP13
IC25 Q88-Q90 B-Y DEMOD
RV11 CARR BAL
Q180 BUFF
FL5 LPF
Q83-Q87 PEAK HOLD
RV10 AGC LEVEL
IC29 R-Y DEMOD
RV16 CARR BAL
Q181 BUFF
FL7 LPF
Q99 GAIN CONT
MB. CN11-B1 CN1 D28 RET 1 (X) IN
MB. CN11-B2 CN1 D29 RET 2 (X) IN
MB. CN11-B3 CN1 D30 RET 3 (X) IN
MB. CN11-B4 CN1 D31 RET 4 (X) IN
Q110, 111, 112 Q113, 114, 115 NAM SELECT
IC33 DECODER
RET VIDEO
Q117 IC49 (1/2) SYNC SEP
IC49 (2/2) COMP
NO VIDEO CTL
IC34
Q116 BUFF
SYNC
IC36
Q123 BUFF
FL8 LPF
IC39, Q155 CLAMP
Q126 VIDEO AMP
RV20 RET DEVIATION
Q127 BUFF
TP20
Q128 RET MOD
CV1 RET FREQ ADJ
Q156 Q129-Q131 RF AMP
Q119 BUFF
Q120, Q121 SYNC SEP
RV19 RET MIX
Q118 BUFF
Q122 BUFF
RET MIX
VA. 2-C69 D26 RET MIX Y (X) IN
MB. CN11-B5 CN1 D32 PROMPT TX1 (X) IN
MB. CN11-B6 CN1 D33 PROMPT TX2 (X) IN
Q138 BUFF
Q137 BUFF
IC37
Q139 BUFF
FL10 LPF
Q140 BUFF
IC50, IC38 PROMPT MOD
RV21 PROMPT DEVIATION
Q141, Q142 RF AMP
Q143 RF AMP
T801 CV801, CV802 BPF 100MHZ
TP22
CV2 PROMPT BPF ADJ1
CV3 PROMPT BPF ADJ2
PROMPT RF ATT
S6 RF SELECT
Q144 AMP
PROMPT
Q186 INV RET RF ATT 1
Q187 INV RET RF ATT 2
RET SELECT
PROMPT SELECT
RX POWER SUPPLY
Q157-168, 188 POWER SUPPLY SELECT
S5 +5V RX TX
TX POWER SUPPLY
PROMPT DIRECTION
PROMPT MOD ON
IC45 SERIAL/PARALLEL CONV.
AT. 1-A24 CN1 A24 DATA 0 IN
AT. 1-A23 A23 LD 0 IN
AT. 1-D21 D21 S CK IN

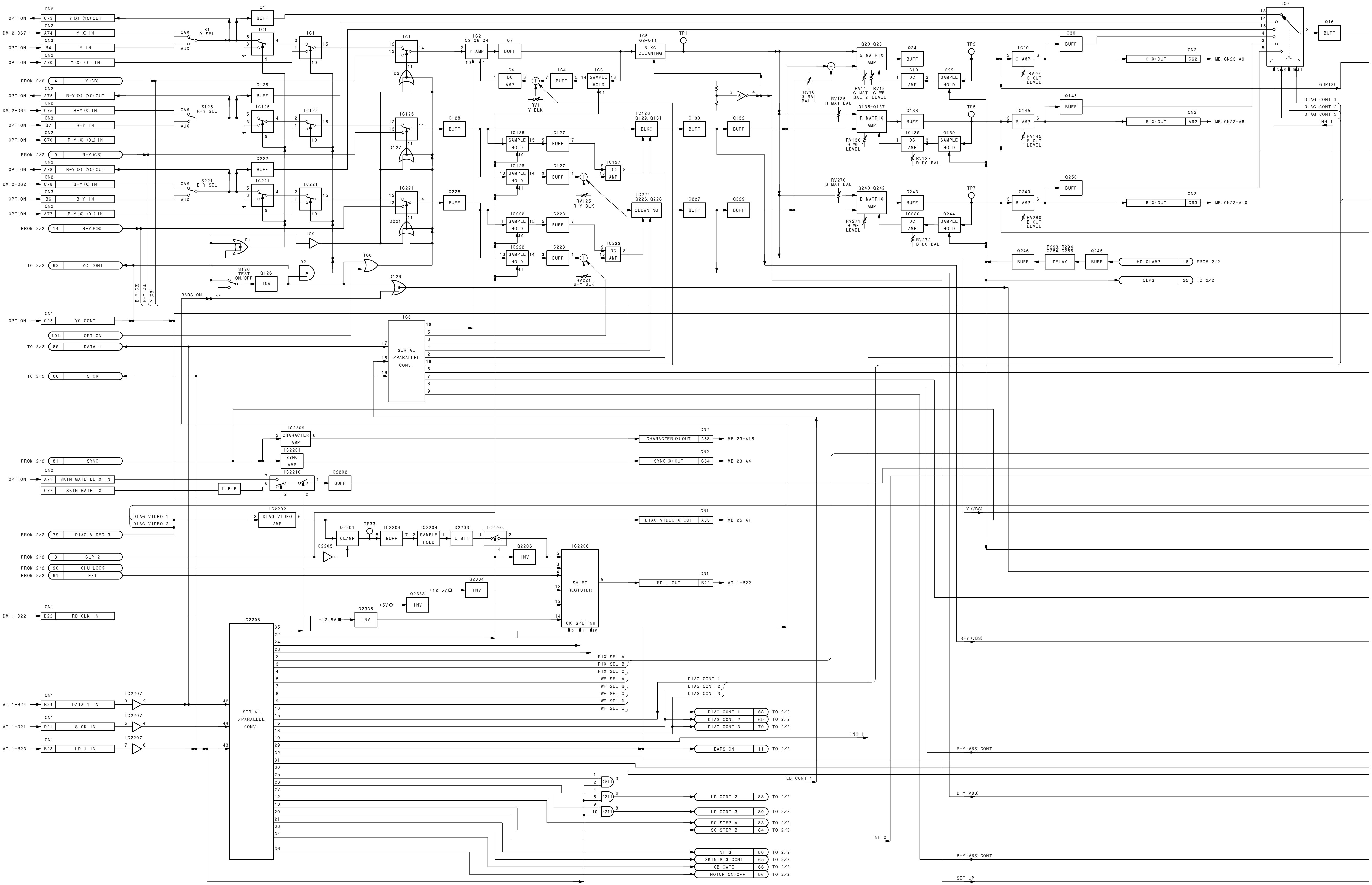

IC20 Q64–Q66 Y DEMOD
RV8 CARR BAL
Q185 BUFF
FL4 LPF
Q67 BUFFER
DL1 DL 50ns
IC21 VIDEO AMP
TP11
CN2 Y (X) OUT D67 VA. 2-A74
TP26
IC58 CLAMP
IC23 SYNC SEP
CN1 CHU SYNC OUT C18 VA. 1-C18 AT. 1-C18
Q61 SYNC S/H
RV24 Y OFFSET
IC19 (2/2)
RV7 CARRIER LEVEL
Q184 BUFFER
Q60 BLACK S/H
IC19 (1/2) VOLTAGE FOLLOWER
X1 VCO
Q62 BUFFER
FL2 LPF
Q63 BUFFER
TP10
TP9
RV6 VCO DC SET
FL3 90° SHIFT
IC47 DC AMP
Q68 BLACK S/H
IC23 SKIN GATE SEP
CN2 SKIN GATE (X) OUT D68 VA. 2-C72
TP8
TP5
TP6
IC16, Q56 SAMPLE S/H PULSE GEN
RV4 SAMPLE S/H PULSE WIDTH
IC17 SAMPLE SLICER
TP7
TP17
IC26 VIDEO AMP
IC27 DC AMP
Q92 BLACK S/H
Q93 SYNC S/H
IC27 VOLTAGE FOLLOWER
RV13 OFFSET ADJ
IC27
TP15
X2 VCO
RV14 PLL SET ADJ
RV15 CARR LEVEL
Q94 BUFFER
FL6 LPF
Q95 BUFFER
TP16
CN2 B-Y (X) OUT D62 VA. 2-C78
Q96 BUFFER
S4 2'nd AGC
IC27 DC AMP
RV12 B-Y LEVEL
Q91 SAMPLE S/H
IC24 DC AMP
TP14
RV9 Y LEVEL
TP12
S3 2'nd AGC
IC47 DC AMP
Q69 SAMPLE S/H
IC30 VIDEO AMP
TP19
IC31 DC AMP
Q103 BLACK S/H
Q104 SAMPLE S/H
IC31 VOLTAGE FOLLOWER
RV18 90° SET
IC31
CN2 R-Y (X) OUT D64 VA. 2-C75
Q105, D54 90° SHIFT
Q106 BUFFER
TP18
IC31 DC AMP
RV17 R-Y LEVEL
Q102 SYNC S/H
CN3 Y YO
CN5 C CO
CN6 RET
CN7 PROMPT
MPX FILTER
CN4 AU
CN8 RF
CN2 RF (AU) (X) OUT B76 AT. 2-D77
CN2 RF (X) IN/OUT B71 IO. 2-1
Q132–Q136 DRIVER
FL9 BPF 70MHz
TP21
SYNC
Q148–Q151 BUFF
IC48
Q152 BUFF
CN1 DIAG VIDEO (DM) (X) OUT D35 VA. 1-A27
IC44 PROMPT DEMOD
RF
LV2 FREQ.
LV3 PROMPT TUNE
RV22 RF AGC DLY
FL11 LPF
IC40 CLAMP
IC41 VIDEO AMP
RV23 PROMPT LEVEL
DIAG VIDEO SELECT
IC32 B-Y DIAG
Q70, IC22 Y DIAG
CN1 PROMPT RX (X) OUT D34 MB. CN11-B7
+5V WIDE STD
IC32 R-Y DIAG
IC52 SHIFT REGISTER (PARALLEL/ SERIAL CONV.)
CN1 RD 0 OUT A22 AT. 1-A22
CN1 RD CLK IN D22 AT. 1-D22
IC51, Q153, Q154 SHIFT REGISTER (PARALLEL/SERIAL CONV.)
PARALLEL/SERIAL CONTROL
TP25 +9V LINE Q147, IC43 +9V REG
CN2 +12.5V IN A80 B80 C80 D80
TP23 +5V LINE Q145, IC43 +5V REG
CN2 +5.5V IN A82 B82 C82 D82
TP24 -5V LINE Q146, IC42 -5V REG
CN2 -5.5V IN A81 B81 C81 D81

DM-94 BLOCK

CCU-700A (J)
CCU-700A (UC)
CCU-700AP (CE)
B-¥CCU700-DM94BLOCK/M

VA-156A/156B/156P (1/2)

VA-156A/156B/156P BOARD


CN2
C73 Y (X) (YC) OUT
A74 Y (X) IN
CN3
B4 Y IN
A70 Y (X) (DL) IN
4 Y (CB)
A75 R-Y (X) (YC) OUT
C75 R-Y (X) IN
B7 R-Y IN
C70 R-Y (X) (DL) IN
9 R-Y (CB)
A78 B-Y (X) (YC) OUT
C78 B-Y (X) IN
B6 B-Y IN
A77 B-Y (X) (DL) IN
14 B-Y (CB)
92 YC CONT
CN1
C25 YC CONT
101 OPTION
85 DATA 1
86 S CK
81 SYNC
A71 SKIN GATE DL (X) IN
C72 SKIN GATE (X)
79 DIAG VIDEO 3
3 CLP 2
90 CHU LOCK
91 EXT
D22 RD CLK IN
B24 DATA 1 IN
D21 S CK IN
B23 LD 1 IN
OPTION
DM. 2-D67
DM. 2-D64
DM. 2-D62
DM. 1-D22
AT. 1-B24
AT. 1-D21
AT. 1-B23
FROM 2/2
TO 2/2
Q1 BUFF
S1 Y SEL
CAM
AUX
S125 R-Y SEL
S221 B-Y SEL
IC1
IC125
IC221
Q125 BUFF
Q222 BUFF
D1
IC9
D2
S126 TEST ON/OFF
Q126 INV
BARS ON
IC8
D126
D3
D127
D221
IC2 Q3, Q6, Q4 Y AMP
Q7 BUFF
IC4 DC AMP
IC4 BUFF
IC3 SAMPLE HOLD
RV1 Y BLK
IC5 Q8-Q14 BLKG CLEANING
TP1
Q128 BUFF
IC126 SAMPLE HOLD
IC127 BUFF
IC127 DC AMP
IC128 Q129, Q131 BLKG
RV125 R-Y BLK
Q225 BUFF
IC222 SAMPLE HOLD
IC223 BUFF
IC223 DC AMP
IC224 Q226, Q228 CLEANING
RV221 B-Y BLK
Q130 BUFF
Q132 BUFF
Q227 BUFF
Q229 BUFF
RV10 G MAT BAL 1
RV135 R MAT BAL
RV270 B MAT BAL
Q20-Q23 G MATRIX AMP
RV11 G MAT BAL 2
RV12 G WF LEVEL
Q24 BUFF
IC10 DC AMP
Q25 SAMPLE HOLD
TP2
Q135-Q137 R MATRIX AMP
RV136 R WF LEVEL
Q138 BUFF
IC135 DC AMP
Q139 SAMPLE HOLD
RV137 R DC BAL
TP5
Q240-Q242 B MATRIX AMP
RV271 B WF LEVEL
Q243 BUFF
IC230 DC AMP
Q244 SAMPLE HOLD
RV272 B DC BAL
TP7
IC20 G AMP
RV20 G OUT LEVEL
Q30 BUFF
IC145 R AMP
RV145 R OUT LEVEL
Q145 BUFF
IC240 B AMP
RV280 B OUT LEVEL
Q250 BUFF
G (X) OUT C62 MB. CN23-A9
R (X) OUT A62 MB. CN23-A8
B (X) OUT C63 MB. CN23-A10
IC7
Q16 BUFF
G (PIX)
DIAG CONT 1
DIAG CONT 2
DIAG CONT 3
INH 1
Q246 BUFF
R293, R294 C254, C256 DELAY
Q245 BUFF
HD CLAMP 16
CLP3 25
IC6 SERIAL /PARALLEL CONV.
IC2209 CHARACTER AMP
CHARACTER (X) OUT A68 MB. 23-A15
IC2201 SYNC AMP
SYNC (X) OUT C64 MB. 23-A4
IC2210
L.P.F
Q2202 BUFF
DIAG VIDEO 1
DIAG VIDEO 2
IC2202 DIAG VIDEO AMP
DIAG VIDEO (X) OUT A33 MB. 25-A1
Q2201 CLAMP
TP33
Q2205
IC2204 BUFF
IC2204 SAMPLE HOLD
D2203 LIMIT
IC2205
Q2206 INV
IC2206 SHIFT REGISTER
CK S/L INH
RD 1 OUT B22 AT. 1-B22
Q2334 INV
+12.5V
Q2333 INV
+5V
Q2335 INV
−12.5V
IC2208 SERIAL /PARALLEL CONV.
IC2207
PIX SEL A
PIX SEL B
PIX SEL C
WF SEL A
WF SEL B
WF SEL C
WF SEL D
WF SEL E
DIAG CONT 1 68
DIAG CONT 2 69
DIAG CONT 3 70
INH 1
BARS ON 11
LD CONT 1
IC2211
LD CONT 2 88
LD CONT 3 89
SC STEP A 83
SC STEP B 84
INH 2
INH 3 80
SKIN SIG CONT 65
CB GATE 66
NOTCH ON/OFF 96
Y (VBS)
R-Y (VBS)
R-Y (VBS) CONT
B-Y (VBS)
B-Y (VBS) CONT
SET UP

3-6

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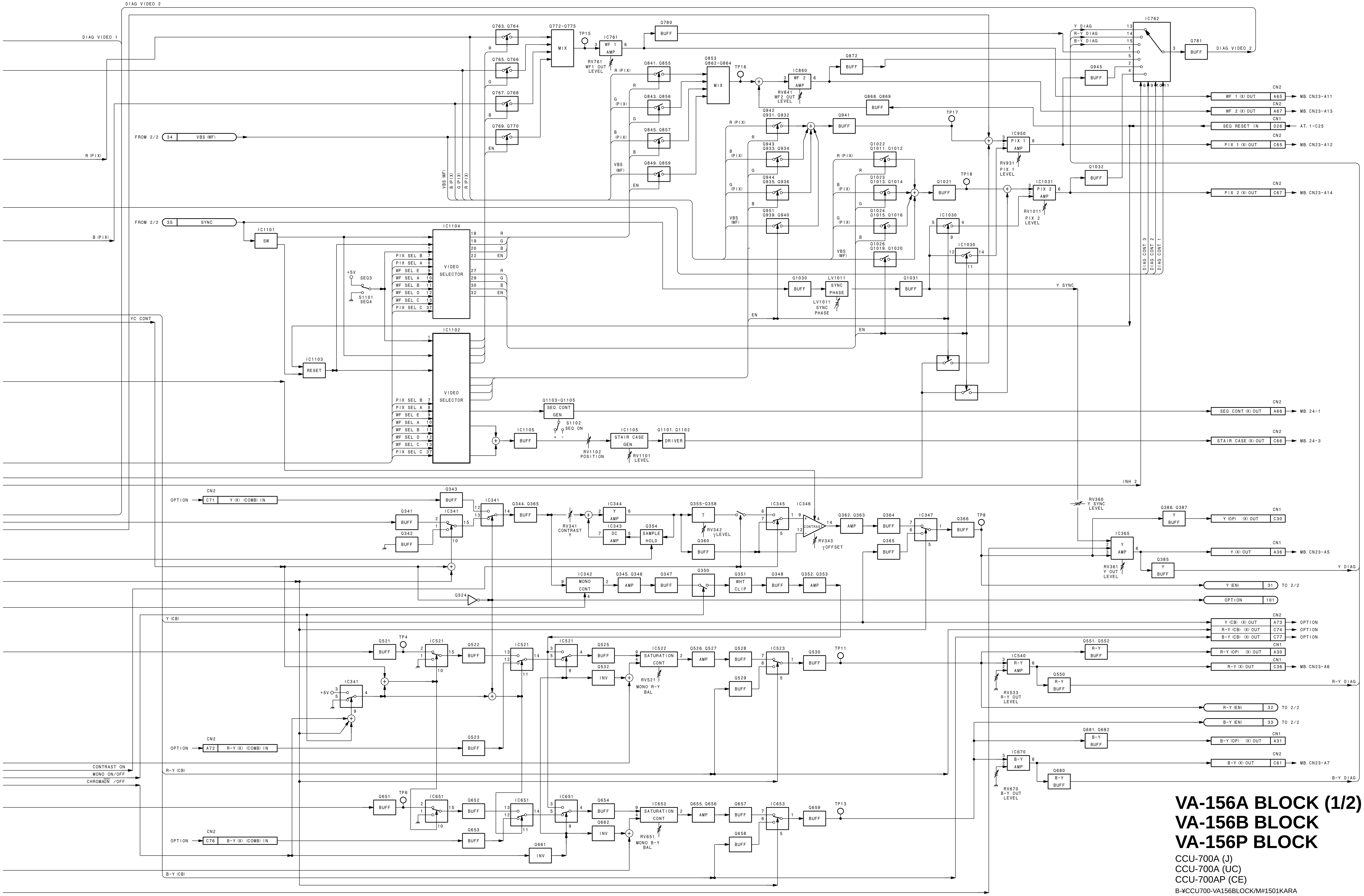
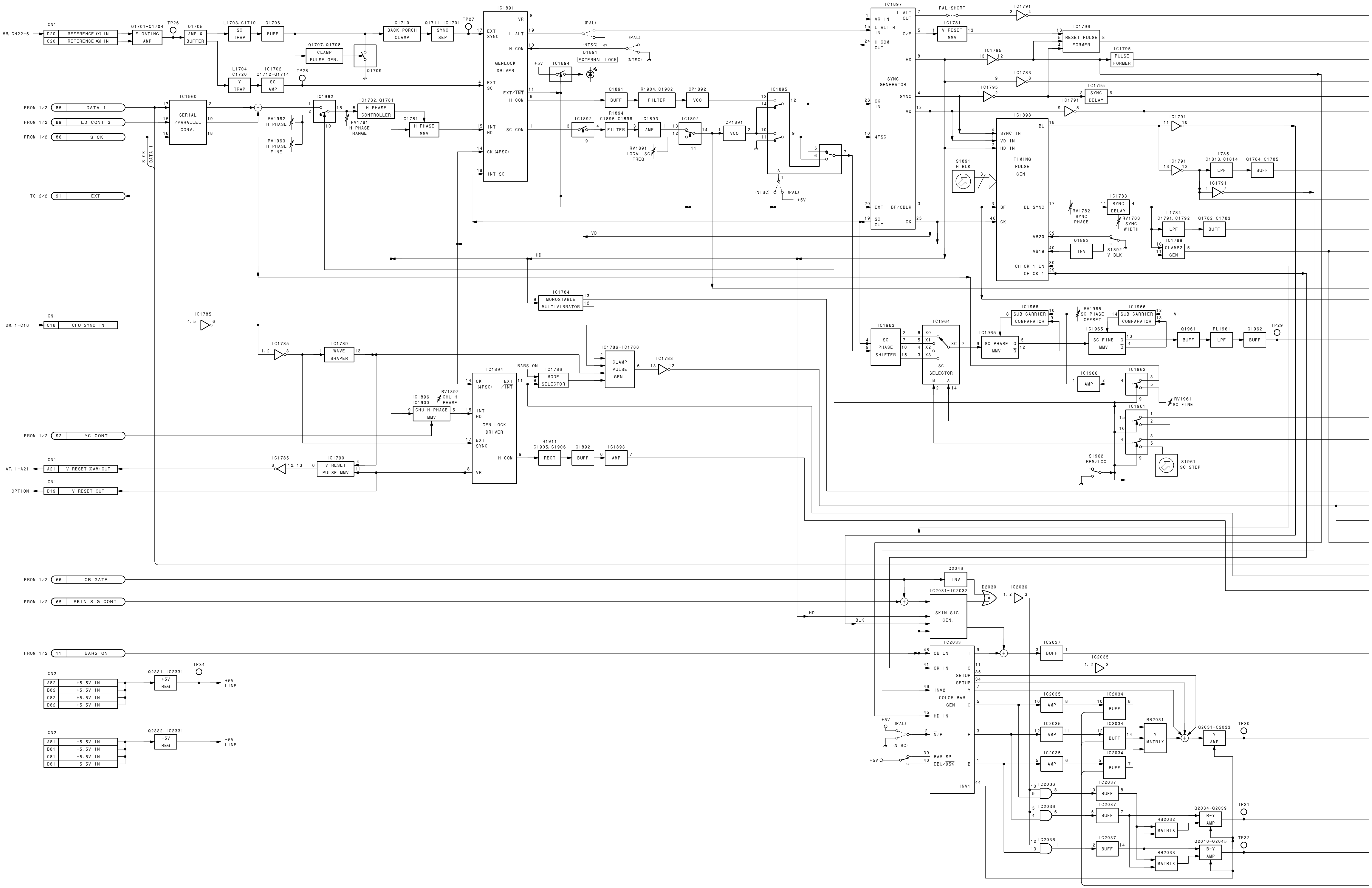

DIAG VIDEO 2
DIAG VIDEO 1
R (PIX)
B (PIX)
FROM 2/2 34 VBS (WF)
FROM 2/2 35 SYNC
YC CONT
Q763, Q764
Q765, Q766
Q767, Q768
Q769, Q770
Q772-Q775 MIX
TP15
IC761 WF 1 AMP
RV761 WF1 OUT LEVEL
Q780 BUFF
Q841, Q855
Q843, Q856
Q845, Q857
Q849, Q859
Q853 Q862-Q864 MIX
TP16
IC860 WF 2 AMP
RV841 WF2 OUT LEVEL
Q872 BUFF
Q868, Q869 BUFF
Q942 Q931, Q932
Q943 Q933, Q934
Q944 Q935, Q936
Q951 Q939, Q940
Q941 BUFF
TP17
IC950 PIX 1 AMP
RV931 PIX 1 LEVEL
Q1022 Q1011, Q1012
Q1023 Q1013, Q1014
Q1024 Q1015, Q1016
Q1026 Q1019, Q1020
Q1021 BUFF
TP18
IC1031 PIX 2 AMP
RV1011 PIX 2 LEVEL
Q1032 BUFF
IC1030
Q1030 BUFF
LV1011 SYNC PHASE
Q1031 BUFF
Y SYNC
IC762
Y DIAG
R-Y DIAG
B-Y DIAG
Q945 BUFF
Q781 BUFF
DIAG VIDEO 2
DIAG CONT 3
DIAG CONT 2
DIAG CONT 1
CN2 WF 1 (X) OUT A65 MB, CN23-A11
CN2 WF 2 (X) OUT A67 MB, CN23-A13
CN1 SEQ RESET IN D26 AT, 1-C25
CN2 PIX 1 (X) OUT C65 MB, CN23-A12
CN2 PIX 2 (X) OUT C67 MB, CN23-A14
IC1101 SW
IC1104 VIDEO SELECTOR
PIX SEL B
PIX SEL A
WF SEL E
WF SEL A
WF SEL B
WF SEL D
WF SEL C
PIX SEL C
+5V
SEQ3
S1101 SEQ4
IC1102 VIDEO SELECTOR
IC1103 RESET
Q1103-Q1105 SEQ CONT GEN.
S1102 SEQ ON
IC1105 BUFF
RV1102 POSITION
IC1105 STAIR CASE GEN.
RV1101 LEVEL
Q1101, Q1102 DRIVER
CN2 SEQ CONT (X) OUT A66 MB, 24-1
CN2 STAIR CASE (X) OUT C66 MB, 24-3
INH 2
OPTION CN2 C71 Y (X) (COMB) IN
Q343 BUFF
Q341 BUFF
Q342 BUFF
IC341
Q344, Q365 BUFF
RV341 CONTRAST Y
IC344 Y AMP
IC343 DC AMP
Q354 SAMPLE HOLD
Q355-Q358 γ
RV342 γ LEVEL
Q360 BUFF
IC345
IC346 CONTRAST
RV343 γ OFFSET
Q362, Q363 AMP
Q364 BUFF
Q365 BUFF
IC347
Q366 BUFF
TP8
RV360 Y SYNC LEVEL
Q386, Q387 Y BUFF
IC365 Y AMP
RV361 Y OUT LEVEL
Q385 Y BUFF
CN1 Y (OP) (X) OUT C30
CN1 Y (X) OUT A36 MB, CN23-A5
Y DIAG
IC342 MONO CONT
Q345, Q346 AMP
Q347 BUFF
Q350
Q351 WHT CLIP
Q348 BUFF
Q352, Q353 AMP
Q524
Y (EN) 31 TO 2/2
OPTION 101
Y (CB)
CN2 Y (CB) (X) OUT A73 OPTION
R-Y (CB) (X) OUT C74 OPTION
B-Y (CB) (X) OUT C77 OPTION
Q521 BUFF
TP4
IC521
Q522 BUFF
IC521
IC521
Q525 BUFF
Q532 INV
IC522 SATURATION CONT
RV521 MONO R-Y BAL
Q526, Q527 AMP
Q528 BUFF
Q529 BUFF
IC523
Q530 BUFF
TP11
Q551, Q552 R-Y BUFF
IC540 R-Y AMP
RV533 R-Y OUT LEVEL
Q550 R-Y BUFF
CN1 R-Y (OP) (X) OUT A30
CN1 R-Y (X) OUT C36 MB, CN23-A6
R-Y DIAG
IC341
+5V
Q523 BUFF
OPTION CN2 A72 R-Y (X) (COMB) IN
R-Y (EN) 32 TO 2/2
B-Y (EN) 33 TO 2/2
Q681, Q682 B-Y BUFF
CN1 B-Y (OP) (X) OUT A31
IC670 B-Y AMP
CN2 B-Y (X) OUT C61 MB, CN23-A7
Q680 B-Y BUFF
RV670 B-Y OUT LEVEL
B-Y DIAG
CONTRAST ON
MONO ON/OFF
CHROMAON /OFF
R-Y (CB)
Q651 BUFF
TP6
IC651
Q652 BUFF
IC651
IC651
Q654 BUFF
Q662 INV
IC652 SATURATION CONT
RV651 MONO B-Y BAL
Q655, Q656 AMP
Q657 BUFF
Q658 BUFF
IC653
Q659 BUFF
TP13
Q653 BUFF
Q661 INV
OPTION CN2 C76 B-Y (X) (COMB) IN
B-Y (CB)

VA-156A BLOCK (1/2)
VA-156B BLOCK
VA-156P BLOCK

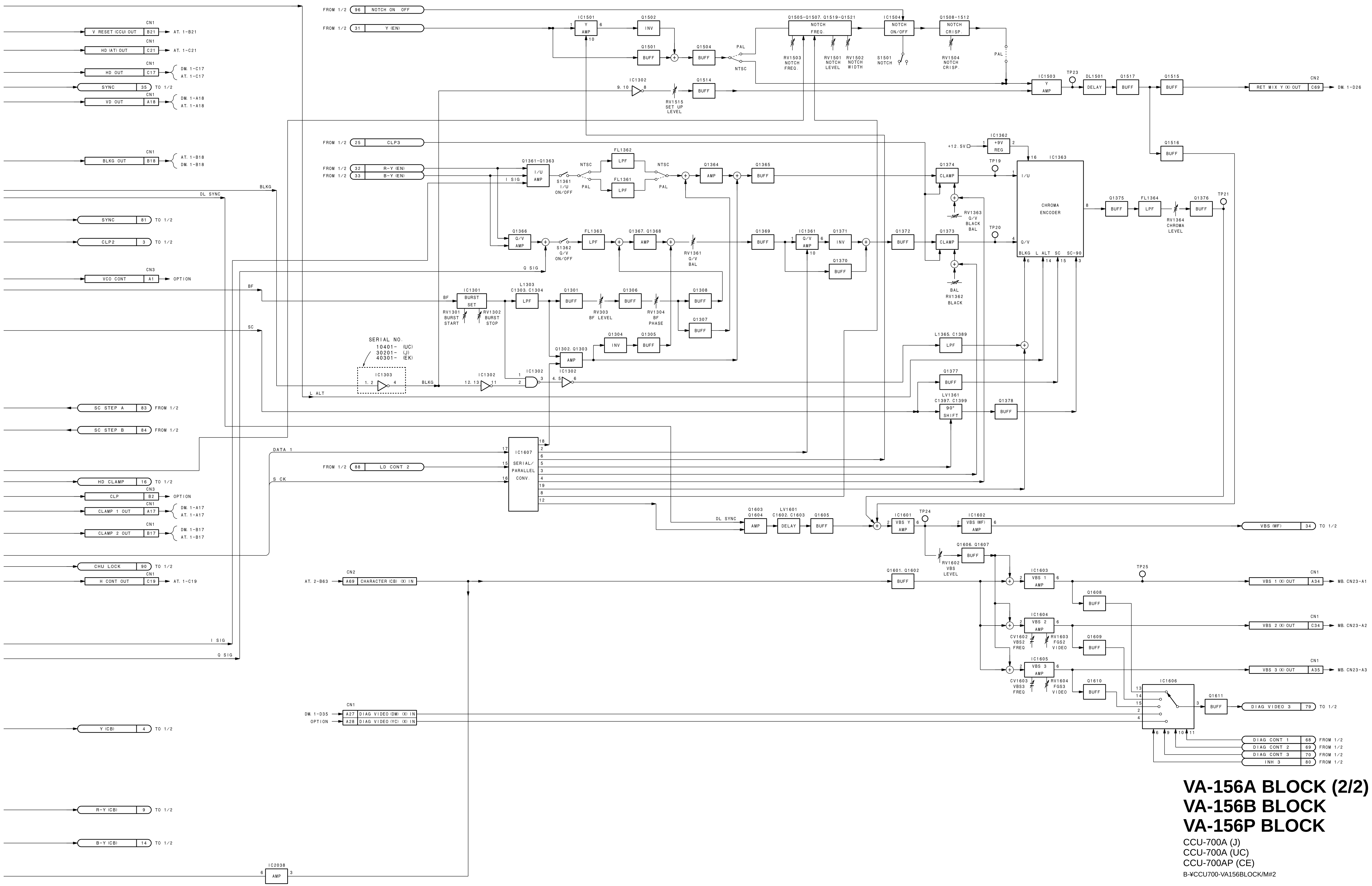
CCU-700A (J)
CCU-700A (UC)
CCU-700AP (CE)

B-¥CCU700-VA156BLOCK/M#1501KARA

VA-156A/156B/156P (2/2)


MB. CN22-6
CN1
D20 REFERENCE (X) IN
C20 REFERENCE (G) IN
Q1701-Q1704 FLOATING AMP
TP26
Q1705 AMP & BUFFER
L1703, C1710 SC TRAP
Q1706 BUFF
Q1707, Q1708 CLAMP PULSE GEN.
Q1709
Q1710 BACK PORCH CLAMP
Q1711, IC1701 SYNC SEP
TP27
L1704 C1720 Y TRAP
IC1702 Q1712-Q1714 SC AMP
TP28
IC1891
EXT SYNC
GENLOCK DRIVER
EXT SC
INT HD
CK (4FSC)
INT SC
VR
L ALT
H COM
EXT/INT
SC COM
(PAL)
(NTSC)
D1891 EXTERNAL LOCK
+5V
IC1894
Q1891 BUFF
R1904, C1902 FILTER
CP1892 VCO
IC1892
R1894 C1895, C1896 FILTER
IC1893 AMP
RV1891 LOCAL SC FREQ
CP1891 VCO
IC1895
(NTSC) (PAL) +5V
FROM 1/2 85 DATA 1
FROM 1/2 89 LD CONT 3
FROM 1/2 86 S CK
IC1960 SERIAL /PARALLEL CONV.
S CK DATA 1
RV1962 H PHASE
RV1963 H PHASE FINE
IC1962
IC1782, Q1781 H PHASE CONTROLLER
RV1781 H PHASE RANGE
IC1781 H PHASE MMV
TO 2/2 91 EXT
VD
HD
IC1784 MONOSTABLE MULTIVIBRATOR
DM. 1-C18 CN1 C18 CHU SYNC IN
IC1785
IC1789 WAVE SHAPER
IC1786-IC1788 CLAMP PULSE GEN.
IC1783
BARS ON
IC1786 MODE SELECTOR
IC1894 CK (4FSC) EXT/INT INT HD GEN LOCK DRIVER EXT SYNC H COM VR
IC1896 IC1900 CHU H PHASE MMV
RV1892 CHU H PHASE
FROM 1/2 92 YC CONT
R1911 C1905, C1906 RECT
Q1892 BUFF
IC1893 AMP
AT. 1-A21 CN1 A21 V RESET (CAM) OUT
IC1790 V RESET PULSE MMV
OPTION CN1 D19 V RESET OUT
IC1897 VR IN L ALT R IN H COM OUT SYNC GENERATOR CK IN 4FSC EXT SC OUT L ALT OUT O/E HD SYNC VD BF/CBLK CK
PAL:SHORT
IC1791
IC1781 V RESET MMV
IC1796 RESET PULSE FORMER
IC1795 PULSE FORMER
IC1795
IC1783
IC1795 SYNC DELAY
IC1898 SYNC IN VD IN HD IN TIMING PULSE GEN. BF CK BL DL SYNC VB20 VB19 CH CK 1 EN CH CK 1
S1891 H BLK
RV1782 SYNC PHASE
IC1783 SYNC DELAY
RV1783 SYNC WIDTH
Q1893 INV
S1892 V BLK
L1785 C1813, C1814 LPF
Q1784, Q1785 BUFF
L1784 C1791, C1792 LPF
Q1782, Q1783 BUFF
IC1789 CLAMP2 GEN
IC1963 SC PHASE SHIFTER
IC1964 SC SELECTOR
IC1965 SC PHASE MMV
IC1966 SUB CARRIER COMPARATOR
RV1965 SC PHASE OFFSET
IC1966 SUB CARRIER COMPARATOR
V+
IC1965 SC FINE MMV
Q1961 BUFF
FL1961 LPF
Q1962 BUFF
TP29
IC1966 AMP
IC1962
RV1961 SC FINE
IC1961
S1962 REM/LOC
S1961 SC STEP
FROM 1/2 66 CB GATE
FROM 1/2 65 SKIN SIG CONT
Q2046 INV
D2030
IC2036
IC2031-IC2032 SKIN SIG. GEN.
HD
BLK
FROM 1/2 11 BARS ON
IC2033 CB EN CK IN INV2 COLOR BAR GEN. HD IN N/P BAR SP EBU/95% I Q SETUP SETUP Y G R B INV1
IC2037 BUFF
IC2035
IC2035 AMP
IC2034 BUFF
RB2031 Y MATRIX
Q2031-Q2033 Y AMP
TP30
+5V (PAL) (NTSC)
+5V
IC2036
IC2037 BUFF
RB2032 MATRIX
Q2034-Q2039 R-Y AMP
TP31
RB2033 MATRIX
Q2040-Q2045 B-Y AMP
TP32
TP34
CN2
A82 +5.5V IN
B82 +5.5V IN
C82 +5.5V IN
D82 +5.5V IN
Q2331, IC2331 +5V REG
+5V LINE
CN2
A81 -5.5V IN
B81 -5.5V IN
C81 -5.5V IN
D81 -5.5V IN
Q2332, IC2331 -5V REG
-5V LINE

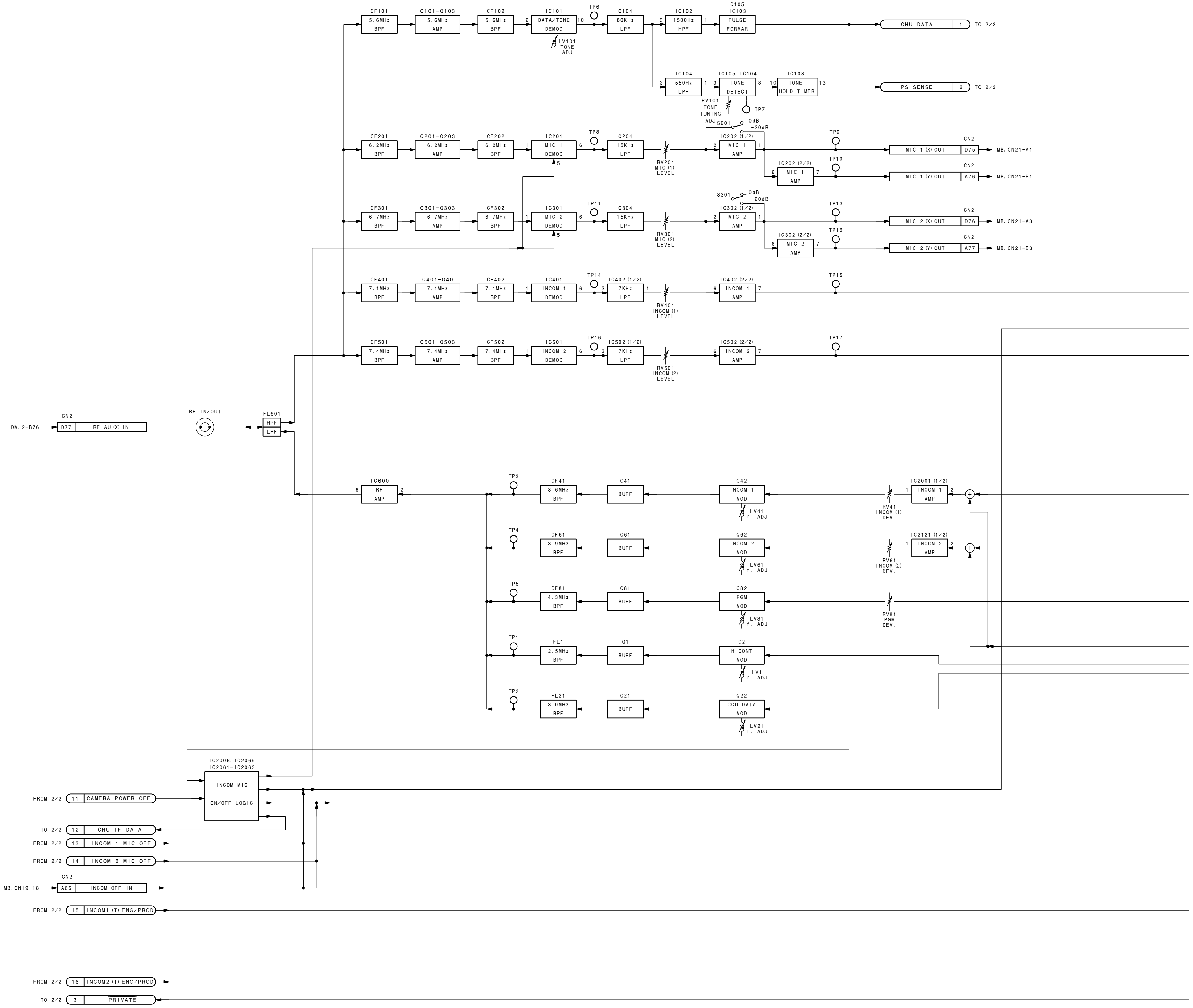
3-8

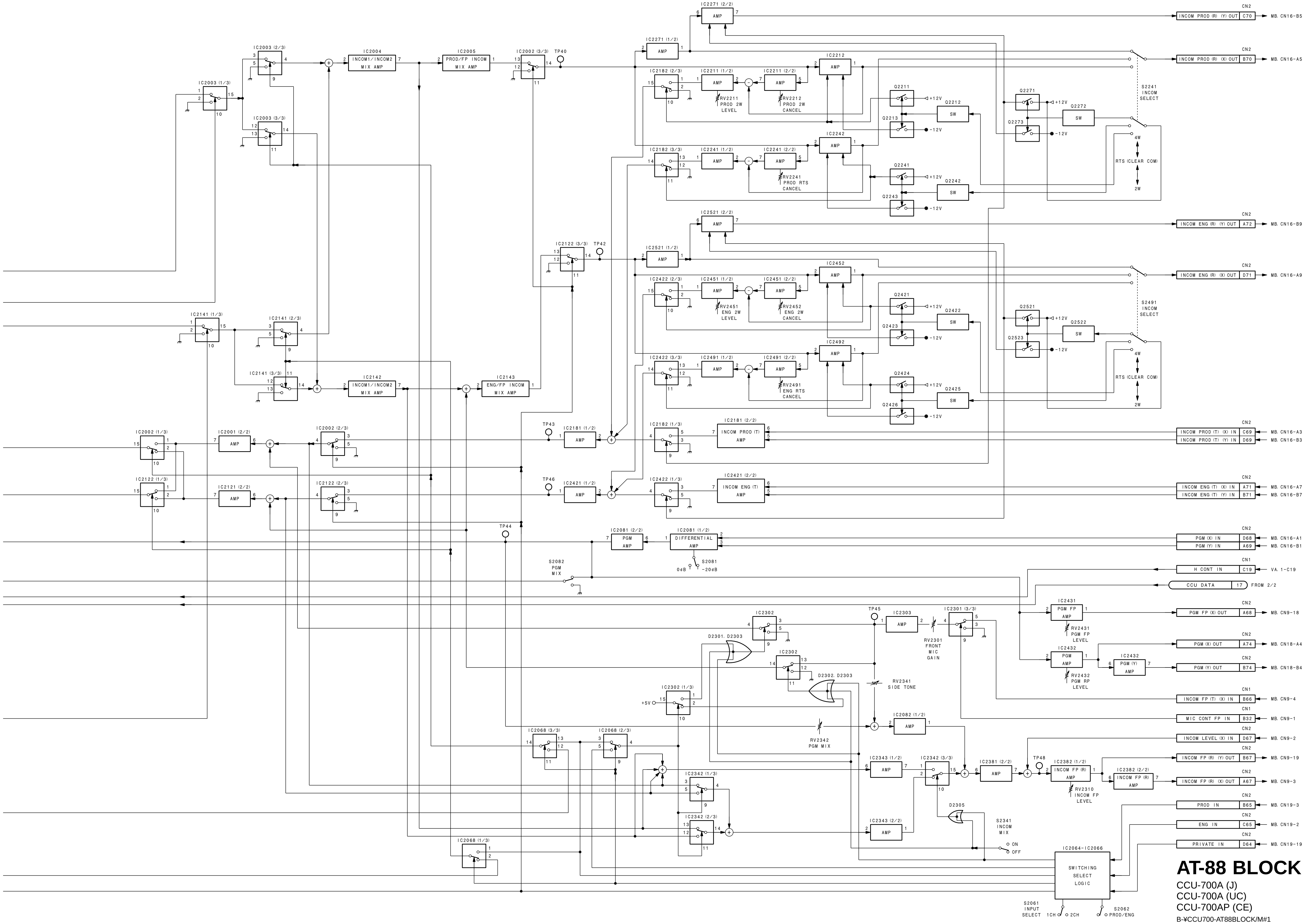

FROM 1/2 96 NOTCH ON OFF
FROM 1/2 31 Y (EN)
IC1501 Y AMP
Q1502 INV
Q1501 BUFF
Q1504 BUFF
PAL
NTSC
Q1505-Q1507, Q1519-Q1521 NOTCH FREQ.
IC1504 NOTCH ON/OFF
Q1508-1512 NOTCH CRISP.
RV1503 NOTCH FREQ
RV1501 NOTCH LEVEL
RV1502 NOTCH WIDTH
S1501 NOTCH
RV1504 NOTCH CRISP.
IC1302
Q1514 BUFF
RV1515 SET UP LEVEL
IC1503 Y AMP
TP23
DL1501 DELAY
Q1517 BUFF
Q1515 BUFF
CN2 RET MIX Y (X) OUT C69 DM. 1-D26
Q1516 BUFF
CN1 V RESET (CCU) OUT B21 AT. 1-B21
CN1 HD (AT) OUT C21 AT. 1-C21
CN1 HD OUT C17 DM. 1-C17 AT. 1-C17
SYNC 35 TO 1/2
CN1 VD OUT A18 DM. 1-A18 AT. 1-A18
CN1 BLKG OUT B18 AT. 1-B18 DM. 1-B18
BLKG
DL SYNC
SYNC 81 TO 1/2
CLP2 3 TO 1/2
CN3 VCO CONT A1 OPTION
BF
SC
FROM 1/2 25 CLP3
IC1362 +12.5V +9V REG
FROM 1/2 32 R-Y (EN)
FROM 1/2 33 B-Y (EN)
Q1361-Q1363 I/U AMP
I SIG
S1361 I/U ON/OFF
FL1362 LPF
FL1361 LPF
Q1364 AMP
Q1365 BUFF
Q1374 CLAMP
TP19
IC1363 CHROMA ENCODER
RV1363 Q/V BLACK BAL
Q1375 BUFF
FL1364 LPF
RV1364 CHROMA LEVEL
Q1376 BUFF
TP21
Q1366 Q/V AMP
S1362 Q/V ON/OFF
FL1363 LPF
Q1367, Q1368 AMP
RV1361 Q/V BAL
Q1369 BUFF
IC1361 Q/V AMP
Q1371 INV
Q1370 BUFF
Q1372 BUFF
Q1373 CLAMP
TP20
BAL RV1362 BLACK
Q SIG
IC1301 BURST SET
RV1301 BURST START
RV1302 BURST STOP
L1303 C1303, C1304 LPF
Q1301 BUFF
RV303 BF LEVEL
Q1306 BUFF
RV1304 BF PHASE
Q1308 BUFF
Q1307 BUFF
Q1304 INV
Q1305 BUFF
Q1302, Q1303 AMP
L1365, C1389 LPF
SERIAL NO. 10401- (UC) 30201- (J) 40301- (EK)
IC1303
IC1302
L ALT
Q1377 BUFF
LV1361 C1397, C1399 90° SHIFT
Q1378 BUFF
SC STEP A 83 FROM 1/2
SC STEP B 84 FROM 1/2
DATA 1
FROM 1/2 88 LD CONT 2
S CK
IC1607 SERIAL/ PARALLEL CONV.
HD CLAMP 16 TO 1/2
CN3 CLP B2 OPTION
CN1 CLAMP 1 OUT A17 DM. 1-A17 AT. 1-A17
CN1 CLAMP 2 OUT B17 DM. 1-B17 AT. 1-B17
CHU LOCK 90 TO 1/2
CN1 H CONT OUT C19 AT. 1-C19
DL SYNC
Q1603 Q1604 AMP
LV1601 C1602, C1603 DELAY
Q1605 BUFF
IC1601 VBS Y AMP
TP24
IC1602 VBS (WF) AMP
VBS (WF) 34 TO 1/2
RV1602 VBS LEVEL
Q1606, Q1607 BUFF
AT. 2-B63 CN2 A69 CHARACTER (CB) (X) IN
Q1601, Q1602 BUFF
IC1603 VBS 1 AMP
TP25
CN1 VBS 1 (X) OUT A34 MB. CN23-A1
Q1608 BUFF
IC1604 VBS 2 AMP
CV1602 VBS2 FREQ
RV1603 FGS2 VIDEO
CN1 VBS 2 (X) OUT C34 MB. CN23-A2
Q1609 BUFF
IC1605 VBS 3 AMP
CV1603 VBS3 FREQ
RV1604 FGS3 VIDEO
CN1 VBS 3 (X) OUT A35 MB. CN23-A3
Q1610 BUFF
IC1606
Q1611 BUFF
DIAG VIDEO 3 79 TO 1/2
I SIG
Q SIG
DM. 1-D35 CN1 A27 DIAG VIDEO (DM) (X) IN
OPTION A28 DIAG VIDEO (YC) (X) IN
DIAG CONT 1 68 FROM 1/2
DIAG CONT 2 69 FROM 1/2
DIAG CONT 3 70 FROM 1/2
INH 3 80 FROM 1/2
Y (CB) 4 TO 1/2
R-Y (CB) 9 TO 1/2
B-Y (CB) 14 TO 1/2
IC2038 AMP

VA-156A BLOCK (2/2)
VA-156B BLOCK
VA-156P BLOCK

CCU-700A (J)
CCU-700A (UC)
CCU-700AP (CE)
B-¥CCU700-VA156BLOCK/M#2

AT-88 BOARD


CF101
5.6MHz BPF
Q101-Q103
5.6MHz AMP
CF102
5.6MHz BPF
IC101
DATA/TONE DEMOD
LV101 TONE ADJ
TP6
Q104
80KHz LPF
IC102
1500Hz HPF
Q105
IC103
PULSE FORMAR
CHU DATA 1 TO 2/2
IC104
550Hz LPF
IC105, IC104
TONE DETECT
RV101 TONE TUNING ADJ
TP7
IC103
TONE HOLD TIMER
PS SENSE 2 TO 2/2
CF201
6.2MHz BPF
Q201-Q203
6.2MHz AMP
CF202
6.2MHz BPF
IC201
MIC 1 DEMOD
TP8
Q204
15KHz LPF
RV201 MIC (1) LEVEL
S201 0dB -20dB
IC202 (1/2)
MIC 1 AMP
TP9
CN2
MIC 1 (X) OUT D75
MB, CN21-A1
IC202 (2/2)
MIC 1 AMP
TP10
CN2
MIC 1 (Y) OUT A76
MB, CN21-B1
CF301
6.7MHz BPF
Q301-Q303
6.7MHz AMP
CF302
6.7MHz BPF
IC301
MIC 2 DEMOD
TP11
Q304
15KHz LPF
RV301 MIC (2) LEVEL
S301 0dB -20dB
IC302 (1/2)
MIC 2 AMP
TP13
CN2
MIC 2 (X) OUT D76
MB, CN21-A3
IC302 (2/2)
MIC 2 AMP
TP12
CN2
MIC 2 (Y) OUT A77
MB, CN21-B3
CF401
7.1MHz BPF
Q401-Q40
7.1MHz AMP
CF402
7.1MHz BPF
IC401
INCOM 1 DEMOD
TP14
IC402 (1/2)
7KHz LPF
RV401 INCOM (1) LEVEL
IC402 (2/2)
INCOM 1 AMP
TP15
CF501
7.4MHz BPF
Q501-Q503
7.4MHz AMP
CF502
7.4MHz BPF
IC501
INCOM 2 DEMOD
TP16
IC502 (1/2)
7KHz LPF
RV501 INCOM (2) LEVEL
IC502 (2/2)
INCOM 2 AMP
TP17
DM, 2-B76
CN2
D77 RF AU (X) IN
RF IN/OUT
FL601
HPF
LPF
IC600
RF AMP
TP3
CF41
3.6MHz BPF
Q41
BUFF
Q42
INCOM 1 MOD
LV41 f. ADJ
RV41 INCOM (1) DEV.
IC2001 (1/2)
INCOM 1 AMP
TP4
CF61
3.9MHz BPF
Q61
BUFF
Q62
INCOM 2 MOD
LV61 f. ADJ
RV61 INCOM (2) DEV.
IC2121 (1/2)
INCOM 2 AMP
TP5
CF81
4.3MHz BPF
Q81
BUFF
Q82
PGM MOD
LV81 f. ADJ
RV81 PGM DEV.
TP1
FL1
2.5MHz BPF
Q1
BUFF
Q2
H CONT MOD
LV1 f. ADJ
TP2
FL21
3.0MHz BPF
Q21
BUFF
Q22
CCU DATA MOD
LV21 f. ADJ
IC2006, IC2069
IC2061-IC2063
INCOM MIC ON/OFF LOGIC
FROM 2/2 11 CAMERA POWER OFF
TO 2/2 12 CHU IF DATA
FROM 2/2 13 INCOM 1 MIC OFF
FROM 2/2 14 INCOM 2 MIC OFF
CN2
MB, CN19-18 A65 INCOM OFF IN
FROM 2/2 15 INCOM1 (T) ENG/PROD
FROM 2/2 16 INCOM2 (T) ENG/PROD
TO 2/2 3 PRIVATE

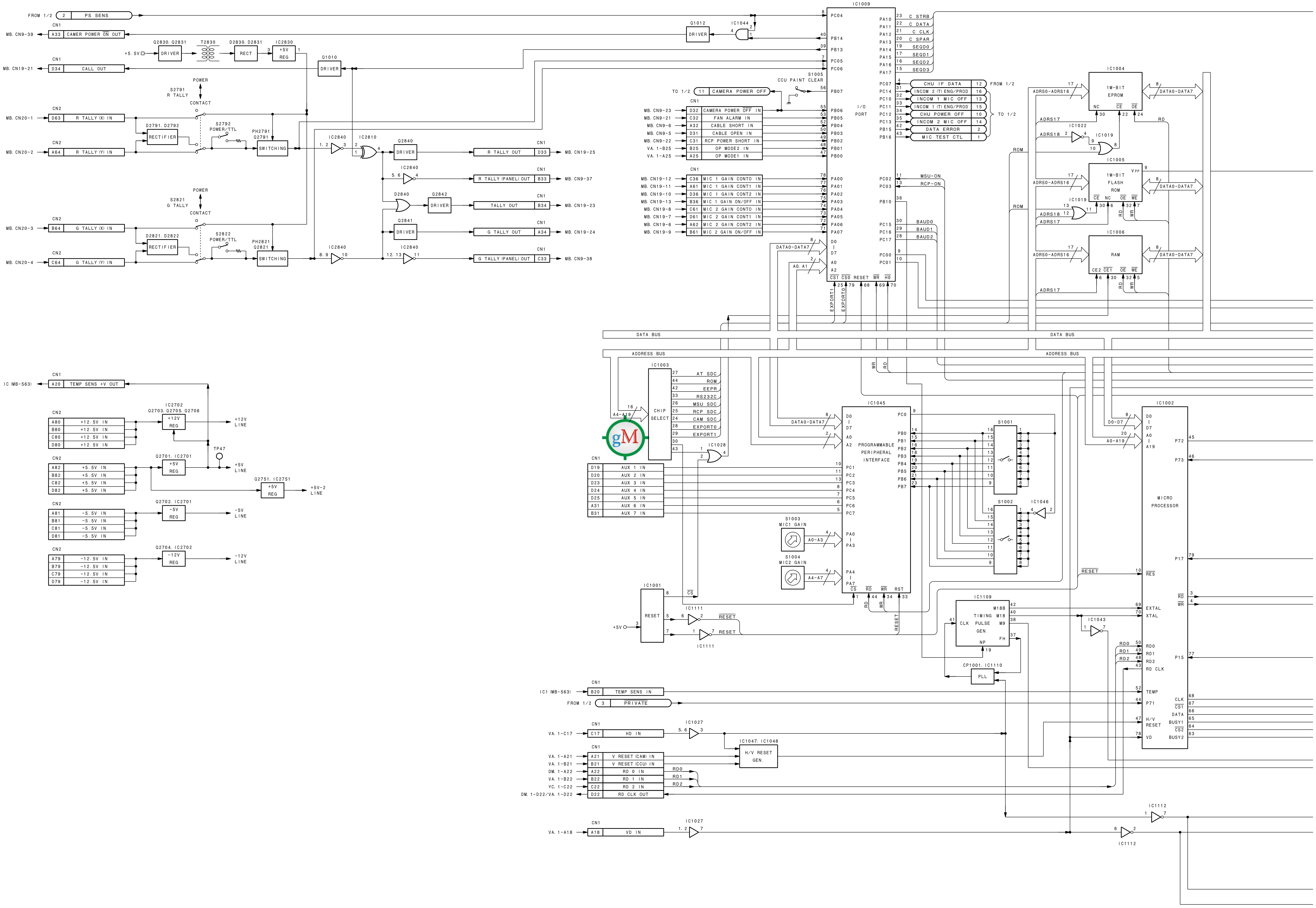

IC2271 (2/2)
AMP
IC2271 (1/2)
IC2003 (2/3)
IC2003 (1/3)
IC2003 (3/3)
IC2004
INCOM1/INCOM2 MIX AMP
IC2005
PROD/FP INCOM MIX AMP
IC2002 (3/3)
TP40
IC2212
IC2182 (2/3)
IC2211 (1/2)
IC2211 (2/2)
RV2211 PROD 2W LEVEL
RV2212 PROD 2W CANCEL
Q2211
Q2212
Q2213
SW
+12V
-12V
Q2271
Q2272
Q2273
S2241 INCOM SELECT
IC2242
IC2182 (3/3)
IC2241 (1/2)
IC2241 (2/2)
RV2241 PROD RTS CANCEL
Q2241
Q2242
Q2243
4W
RTS (CLEAR COM)
2W
IC2521 (2/2)
IC2122 (3/3)
TP42
IC2521 (1/2)
IC2452
IC2422 (2/3)
IC2451 (1/2)
IC2451 (2/2)
RV2451 ENG 2W LEVEL
RV2452 ENG 2W CANCEL
Q2421
Q2422
Q2423
Q2521
Q2522
Q2523
S2491 INCOM SELECT
IC2492
IC2422 (3/3)
IC2491 (1/2)
IC2491 (2/2)
RV2491 ENG RTS CANCEL
Q2424
Q2425
Q2426
IC2141 (1/3)
IC2141 (2/3)
IC2141 (3/3)
IC2142
IC2143
ENG/FP INCOM MIX AMP
IC2002 (1/3)
IC2001 (2/2)
IC2002 (2/3)
TP43
IC2181 (1/2)
IC2182 (1/3)
IC2181 (2/2)
INCOM PROD (T) AMP
IC2122 (1/3)
IC2121 (2/2)
IC2122 (2/3)
TP46
IC2421 (1/2)
IC2422 (1/3)
IC2421 (2/2)
INCOM ENG (T) AMP
TP44
IC2081 (2/2)
PGM AMP
IC2081 (1/2)
DIFFERENTIAL AMP
S2081
0dB
-20dB
S2082 PGM MIX
IC2302
D2301, D2303
IC2302
D2302, D2303
TP45
IC2303
IC2301 (3/3)
RV2301 FRONT MIC GAIN
RV2341 SIDE TONE
IC2302 (1/3)
+5V
IC2082 (1/2)
RV2342 PGM MIX
IC2068 (3/3)
IC2068 (2/3)
IC2342 (1/3)
IC2342 (2/3)
IC2343 (1/2)
IC2343 (2/2)
IC2342 (3/3)
IC2381 (2/2)
TP48
IC2382 (1/2)
INCOM FP (R) AMP
IC2382 (2/2)
RV2310 INCOM FP LEVEL
D2305
S2341 INCOM MIX
ON
OFF
IC2068 (1/3)
IC2064-IC2066
SWITCHING SELECT LOGIC
S2061 INPUT SELECT
1CH
2CH
S2062 PROD/ENG
IC2431
PGM FP AMP
RV2431 PGM FP LEVEL
IC2432
PGM AMP
RV2432 PGM RP LEVEL
IC2432
PGM (Y) AMP
CN2
CN1
INCOM PROD (R) (Y) OUT C70 MB. CN16-B5
INCOM PROD (R) (X) OUT B70 MB. CN16-A5
INCOM ENG (R) (Y) OUT A72 MB. CN16-B9
INCOM ENG (R) (X) OUT D71 MB. CN16-A9
INCOM PROD (T) (X) IN C69 MB. CN16-A3
INCOM PROD (T) (Y) IN D69 MB. CN16-B3
INCOM ENG (T) (X) IN A71 MB. CN16-A7
INCOM ENG (T) (Y) IN B71 MB. CN16-B7
PGM (X) IN D68 MB. CN16-A1
PGM (Y) IN A69 MB. CN16-B1
H CONT IN C19 VA. 1-C19
CCU DATA 17 FROM 2/2
PGM FP (X) OUT A68 MB. CN9-18
PGM (X) OUT A74 MB. CN18-A4
PGM (Y) OUT B74 MB. CN18-B4
INCOM FP (T) (X) IN B66 MB. CN9-4
MIC CONT FP IN B32 MB. CN9-1
INCOM LEVEL (X) IN D67 MB. CN9-2
INCOM FP (R) (Y) OUT B67 MB. CN9-19
INCOM FP (R) (X) OUT A67 MB. CN9-3
PROD IN B65 MB. CN19-3
ENG IN C65 MB. CN19-2
PRIVATE IN D64 MB. CN19-19

AT-88 BLOCK (1/2)

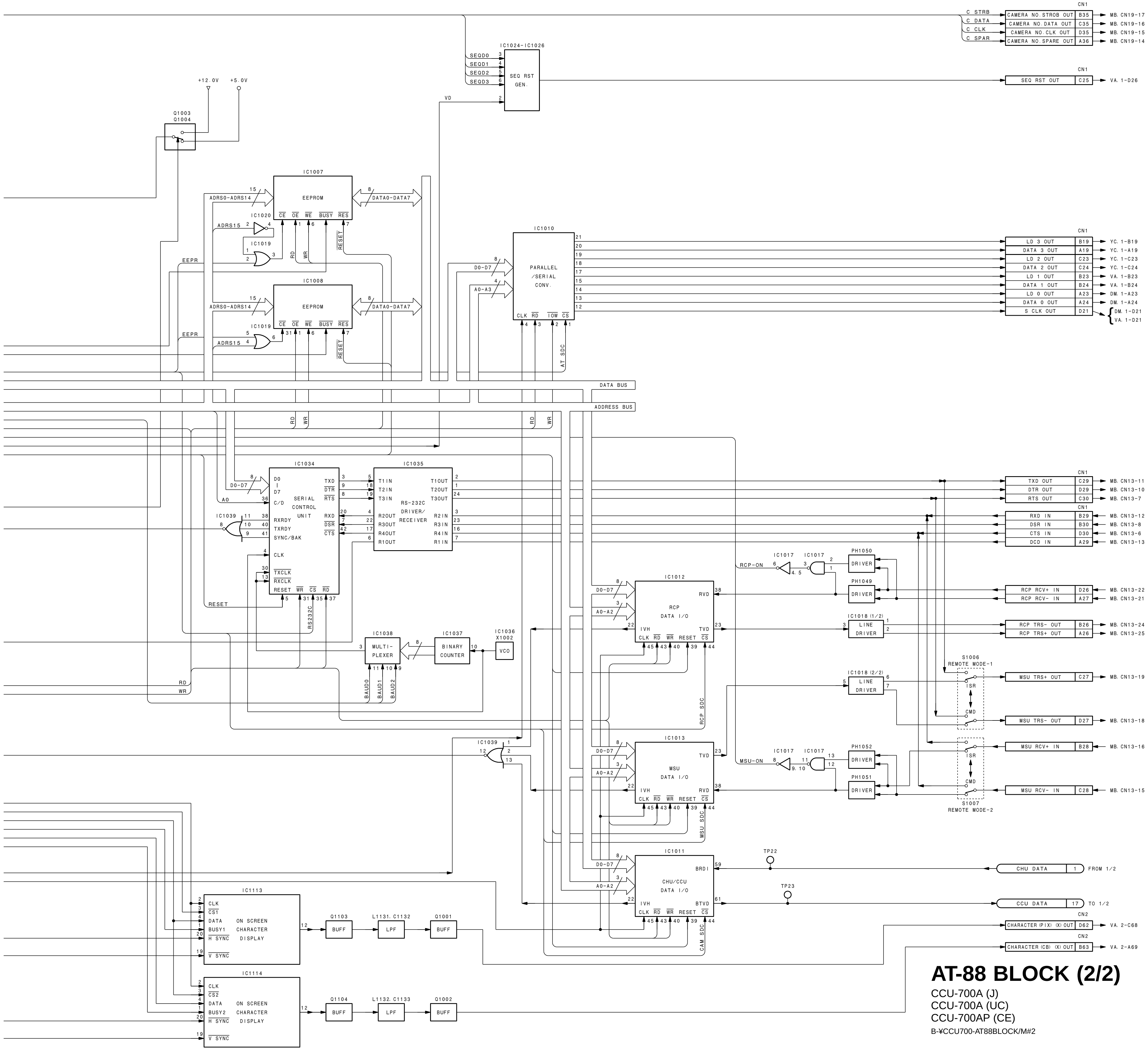
CCU-700A (J)
CCU-700A (UC)
CCU-700AP (CE)
B-¥CCU700-AT88BLOCK/M#1

AT-88 (2/2)

AT-88 (2/2)


FROM 1/2
PS SENS
MB. CN9-39
CN1
A33 CAMER POWER ON OUT
+5.5V
Q2830, Q2831 DRIVER
T2830
D2830, D2831 RECT
IC2830 +5V REG
Q1010 DRIVER
MB. CN19-21
D34 CALL OUT
POWER
S2791 R TALLY
CONTACT
CN2
MB. CN20-1
D63 R TALLY (X) IN
D2791, D2792 RECTIFIER
S2792 POWER/TTL
PH2791 Q2791 SWITCHING
IC2840
IC2810
Q2840 DRIVER
MB. CN20-2
A64 R TALLY (Y) IN
R TALLY OUT
D33
MB. CN19-25
R TALLY (PANEL) OUT
B33
MB. CN9-37
D2840
Q2842 DRIVER
TALLY OUT
B34
MB. CN19-23
S2821 G TALLY
Q2841 DRIVER
G TALLY OUT
A34
MB. CN19-24
MB. CN20-3
B64 G TALLY (X) IN
D2821, D2822 RECTIFIER
S2822 POWER/TTL
PH2821 Q2821 SWITCHING
G TALLY (PANEL) OUT
C33
MB. CN9-38
MB. CN20-4
C64 G TALLY (Y) IN
IC (MB-563)
A20 TEMP SENS +V OUT
IC2702 Q2703, Q2705, Q2706 +12V REG
A80 B80 C80 D80 +12.5V IN
+12V LINE
TP47
Q2701, IC2701 +5V REG
A82 B82 C82 D82 +5.5V IN
+5V LINE
Q2751, IC2751 +5V REG
+5V-2 LINE
Q2702, IC2701 -5V REG
A81 B81 C81 D81 -5.5V IN
-5V LINE
Q2704, IC2702 -12V REG
A79 B79 C79 D79 -12.5V IN
-12V LINE
IC1009
I/O PORT
Q1012 DRIVER
IC1044
S1005 CCU PAINT CLEAR
TO 1/2
CAMERA POWER OFF
MB. CN9-23 D32 CAMERA POWER OFF IN
MB. CN9-21 C32 FAN ALARM IN
MB. CN9-6 A32 CABLE SHORT IN
MB. CN9-5 D31 CABLE OPEN IN
MB. CN9-22 C31 RCP POWER SHORT IN
VA. 1-B25 B25 OP MODE2 IN
VA. 1-A25 A25 OP MODE1 IN
MB. CN19-12 C36 MIC 1 GAIN CONT0 IN
MB. CN19-11 A61 MIC 1 GAIN CONT1 IN
MB. CN19-10 D36 MIC 1 GAIN CONT2 IN
MB. CN19-13 B36 MIC 1 GAIN ON/OFF IN
MB. CN19-8 C61 MIC 2 GAIN CONT0 IN
MB. CN19-7 D61 MIC 2 GAIN CONT1 IN
MB. CN19-6 A62 MIC 2 GAIN CONT2 IN
MB. CN19-9 B61 MIC 2 GAIN ON/OFF IN
C STRB
C DATA
C CLK
C SPAR
SEQD0
SEQD1
SEQD2
SEQD3
FROM 1/2
CHU IF DATA
INCOM 2 (T) ENG/PROD
INCOM 1 MIC OFF
INCOM 1 (T) ENG/PROD
CHU POWER OFF
INCOM 2 MIC OFF
DATA ERROR
MIC TEST CTL
TO 1/2
MSU-ON
RCP-ON
BAUD0
BAUD1
BAUD2
DATA0-DATA7
A0, A1
EXPORT1
EXPORT0
IC1004 1M-BIT EEPROM
ADRS0-ADRS16
IC1022
IC1019
ADRS17
ADRS18
IC1005 1M-BIT FLASH ROM
IC1006 RAM
ROM
RD
WR
DATA BUS
ADDRESS BUS
IC1003 CHIP SELECT
A4-A19
AT SDC
ROM
EEPR
RS232C
MSU SDC
RCP SDC
CAM SDC
EXPORT0
EXPORT1
IC1028
CN1
D19 AUX 1 IN
D20 AUX 2 IN
D23 AUX 3 IN
D24 AUX 4 IN
D25 AUX 5 IN
A31 AUX 6 IN
B31 AUX 7 IN
IC1045 PROGRAMMABLE PERIPHERAL INTERFACE
S1001
S1002
IC1046
S1003 MIC1 GAIN
A0-A3
S1004 MIC2 GAIN
A4-A7
IC1001 RESET
+5V
IC1111
RESET
IC1109 TIMING PULSE GEN.
CP1001, IC1110 PLL
IC1043
IC1002 MICRO PROCESSOR
D0-D7
A0-A19
RES
EXTAL
XTAL
RD0 RD1 RD2 RD CLK
TEMP
P71
H/V RESET
VD
CLK CS1 DATA BUSY1 CS2 BUSY2
IC1 (MB-563) B20 TEMP SENS IN
FROM 1/2 PRIVATE
VA. 1-C17 C17 HD IN
IC1027
IC1047, IC1048 H/V RESET GEN.
VA. 1-A21 A21 V RESET (CAM) IN
VA. 1-B21 B21 V RESET (CCU) IN
DM. 1-A22 A22 RD 0 IN
VA. 1-B22 B22 RD 1 IN
YC. 1-C22 C22 RD 2 IN
DM. 1-D22/VA. 1-D22 D22 RD CLK OUT
IC1112
VA. 1-A18 A18 VD IN

3-12

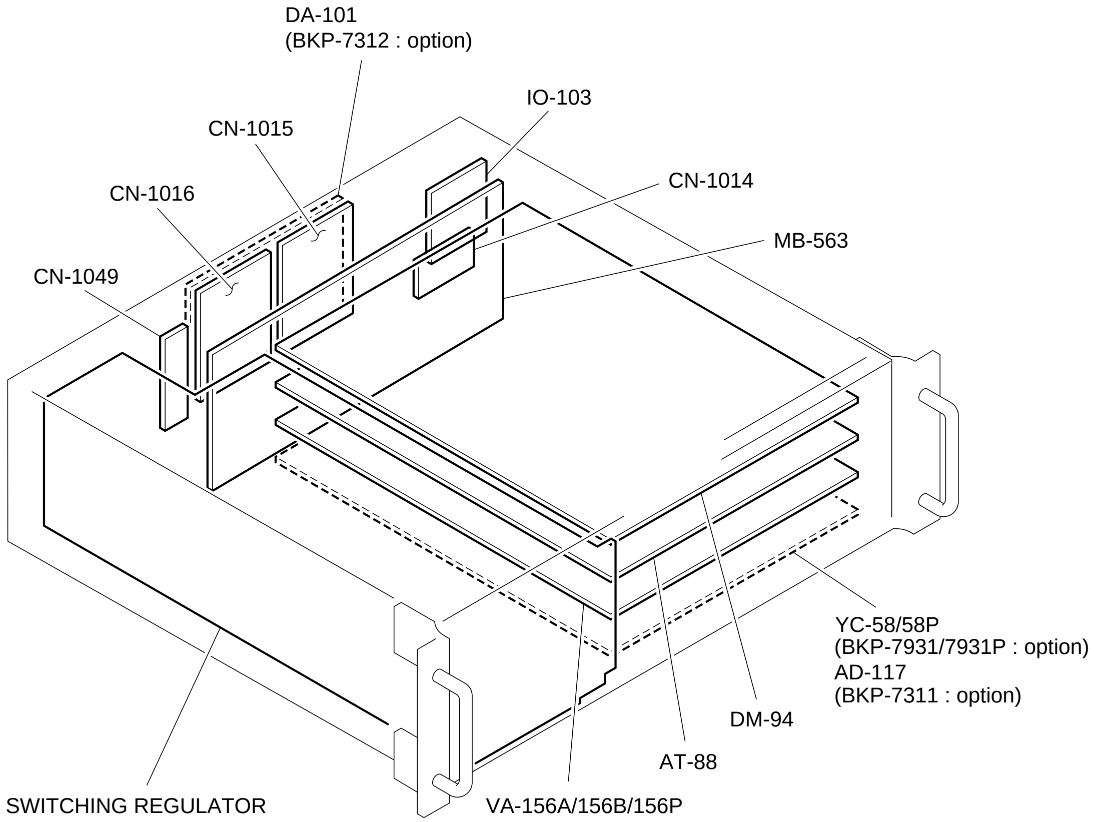

C STRB
C DATA
C CLK
C SPAR
CN1
CAMERA NO.STROB OUT B35 MB. CN19-17
CAMERA NO.DATA OUT C35 MB. CN19-16
CAMERA NO.CLK OUT D35 MB. CN19-15
CAMERA NO.SPARE OUT A36 MB. CN19-14
IC1024-IC1026
SEQD0
SEQD1
SEQD2
SEQD3
VD
SEQ RST GEN.
SEQ RST OUT C25 VA. 1-D26
+12.0V
+5.0V
Q1003
Q1004
IC1007
EEPROM
ADRS0-ADRS14
DATA0-DATA7
IC1020
ADRS15
IC1019
CE OE WE BUSY RES
RD
WR
RESET
EEPR
IC1008
EEPROM
IC1010
PARALLEL /SERIAL CONV.
D0-D7
A0-A3
CLK RD IOW CS
AT SDC
LD 3 OUT B19 YC. 1-B19
DATA 3 OUT A19 YC. 1-A19
LD 2 OUT C23 YC. 1-C23
DATA 2 OUT C24 YC. 1-C24
LD 1 OUT B23 VA. 1-B23
DATA 1 OUT B24 VA. 1-B24
LD 0 OUT A23 DM. 1-A23
DATA 0 OUT A24 DM. 1-A24
S CLK OUT D21 DM. 1-D21 VA. 1-D21
DATA BUS
ADDRESS BUS
IC1034
SERIAL CONTROL UNIT
D0 I D7
C/D
RXRDY
TXRDY
SYNC/BAK
CLK
TXCLK
RXCLK
RESET WR CS RD
TXD DTR RTS RXD DSR CTS
A0
IC1039
RS232C
IC1035
RS-232C DRIVER/ RECEIVER
T1IN T2IN T3IN R2OUT R3OUT R4OUT R1OUT
T1OUT T2OUT T3OUT R2IN R3IN R4IN R1IN
TXD OUT C29 MB. CN13-11
DTR OUT D29 MB. CN13-10
RTS OUT C30 MB. CN13-7
RXD IN B29 MB. CN13-12
DSR IN B30 MB. CN13-8
CTS IN D30 MB. CN13-6
DCD IN A29 MB. CN13-13
IC1038 MULTI-PLEXER
IC1037 BINARY COUNTER
IC1036 X1002 VCO
BAUD0 BAUD1 BAUD2
RD
WR
RESET
IC1012
RCP DATA I/O
RVD
TVD
IVH
CLK RD WR RESET CS
RCP SDC
RCP-ON
IC1017
PH1050 DRIVER
PH1049 DRIVER
RCP RCV+ IN D26 MB. CN13-22
RCP RCV- IN A27 MB. CN13-21
IC1018 (1/2) LINE DRIVER
RCP TRS- OUT B26 MB. CN13-24
RCP TRS+ OUT A26 MB. CN13-25
S1006 REMOTE MODE-1
IC1018 (2/2) LINE DRIVER
ISR
CMD
MSU TRS+ OUT C27 MB. CN13-19
MSU TRS- OUT D27 MB. CN13-18
IC1013
MSU DATA I/O
MSU SDC
MSU-ON
PH1052 DRIVER
PH1051 DRIVER
MSU RCV+ IN B28 MB. CN13-16
MSU RCV- IN C28 MB. CN13-15
S1007 REMOTE MODE-2
IC1011
CHU/CCU DATA I/O
BRDI
BTVD
CAM SDC
TP22
TP23
CHU DATA 1 FROM 1/2
CCU DATA 17 TO 1/2
IC1113
ON SCREEN CHARACTER DISPLAY
CLK CS1 DATA BUSY1 H SYNC V SYNC
Q1103 BUFF
L1131, C1132 LPF
Q1001 BUFF
CN2
CHARACTER (PIX) (X) OUT D62 VA. 2-C68
CHARACTER (CB) (X) OUT B63 VA. 2-A69
IC1114
CLK CS2 DATA BUSY2 H SYNC V SYNC
Q1104 BUFF
L1132, C1133 LPF
Q1002 BUFF

AT-88 BLOCK (2/2)

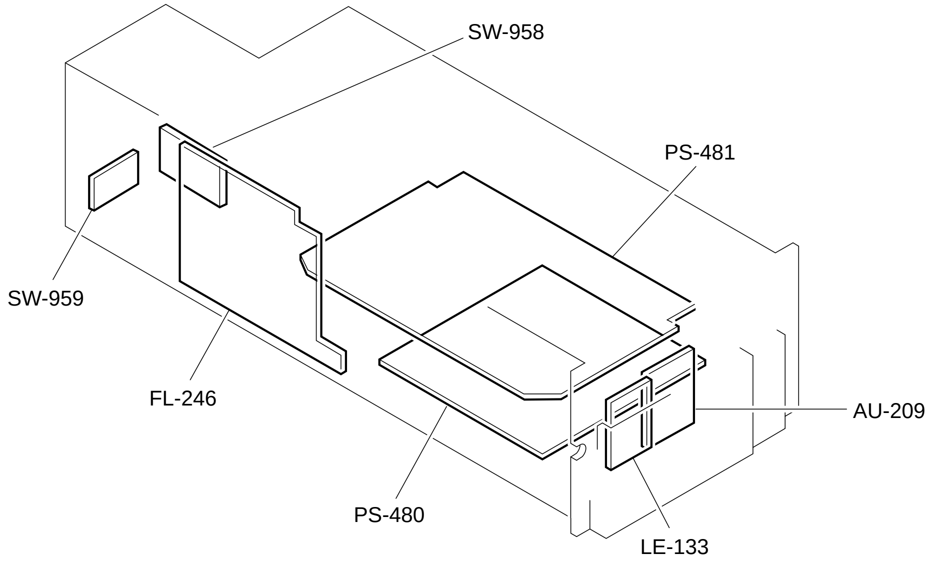
CCU-700A (J)
CCU-700A (UC)
CCU-700AP (CE)
B-¥CCU700-AT88BLOCK/M#2

Section 4
Schematic Diagrams

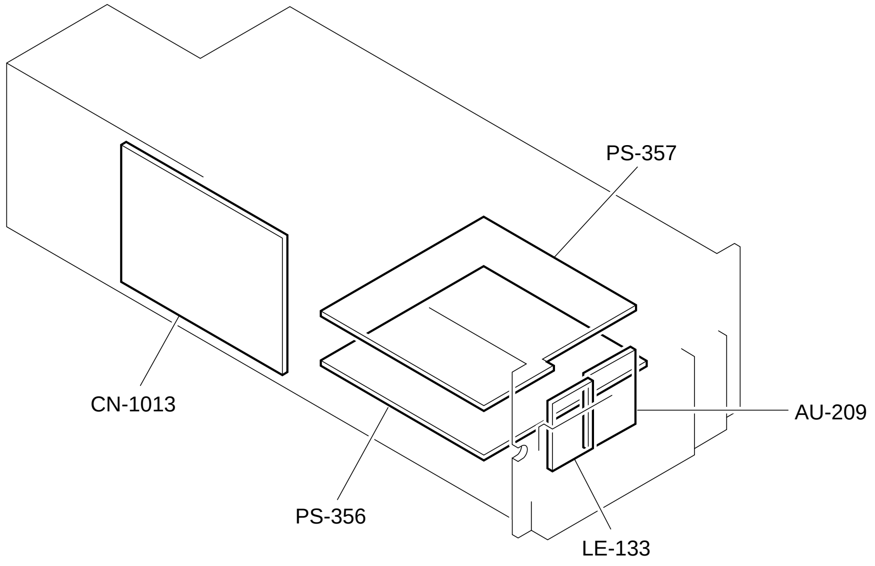
LOCATION OF PRINTED CIRCUIT BOARDS


DA-101
(BKP-7312 : option)
IO-103
CN-1015
CN-1014
CN-1016
MB-563
CN-1049
YC-58/58P
(BKP-7931/7931P : option)
AD-117
(BKP-7311 : option)
DM-94
AT-88
SWITCHING REGULATOR
VA-156A/156B/156P

S/N : 15701 and Higher
S/N : 35161 and Higher
S/N : 45501 and Higher
S/N : 50311 and Higher


SW-958
PS-481
SW-959
FL-246
AU-209
PS-480
LE-133

S/N : 15001 through 15700
S/N : 35001 through 35160
S/N : 45001 through 45500
S/N : 50001 through 50310


PS-357
CN-1013
AU-209
PS-356
LE-133

DM-94 (1/3)

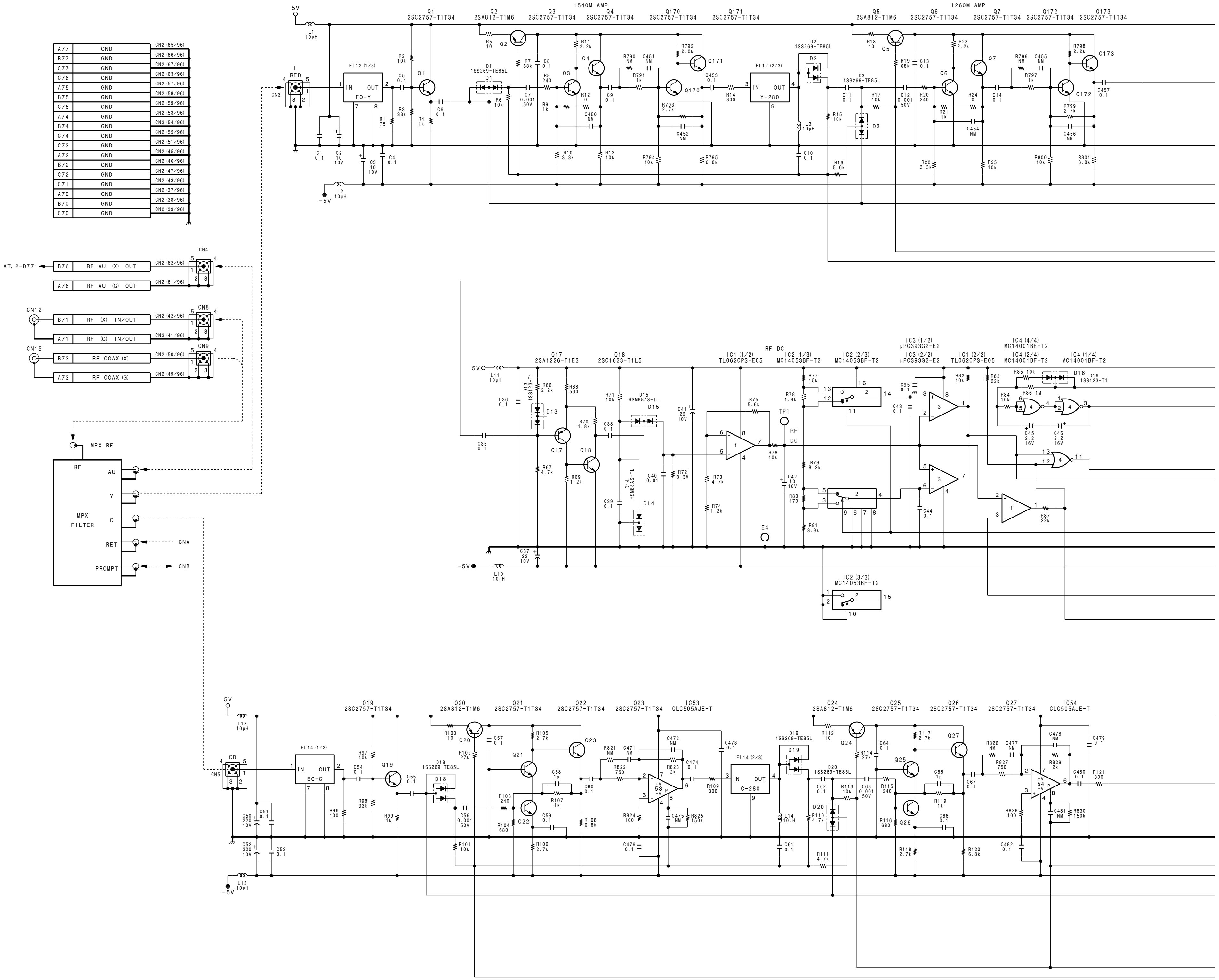
CCU-700A (J)
CCU-700A (UC)
CCU-700AP (CE)

DM-94 BOARD

DM-94 (1-653-238-14, 15)

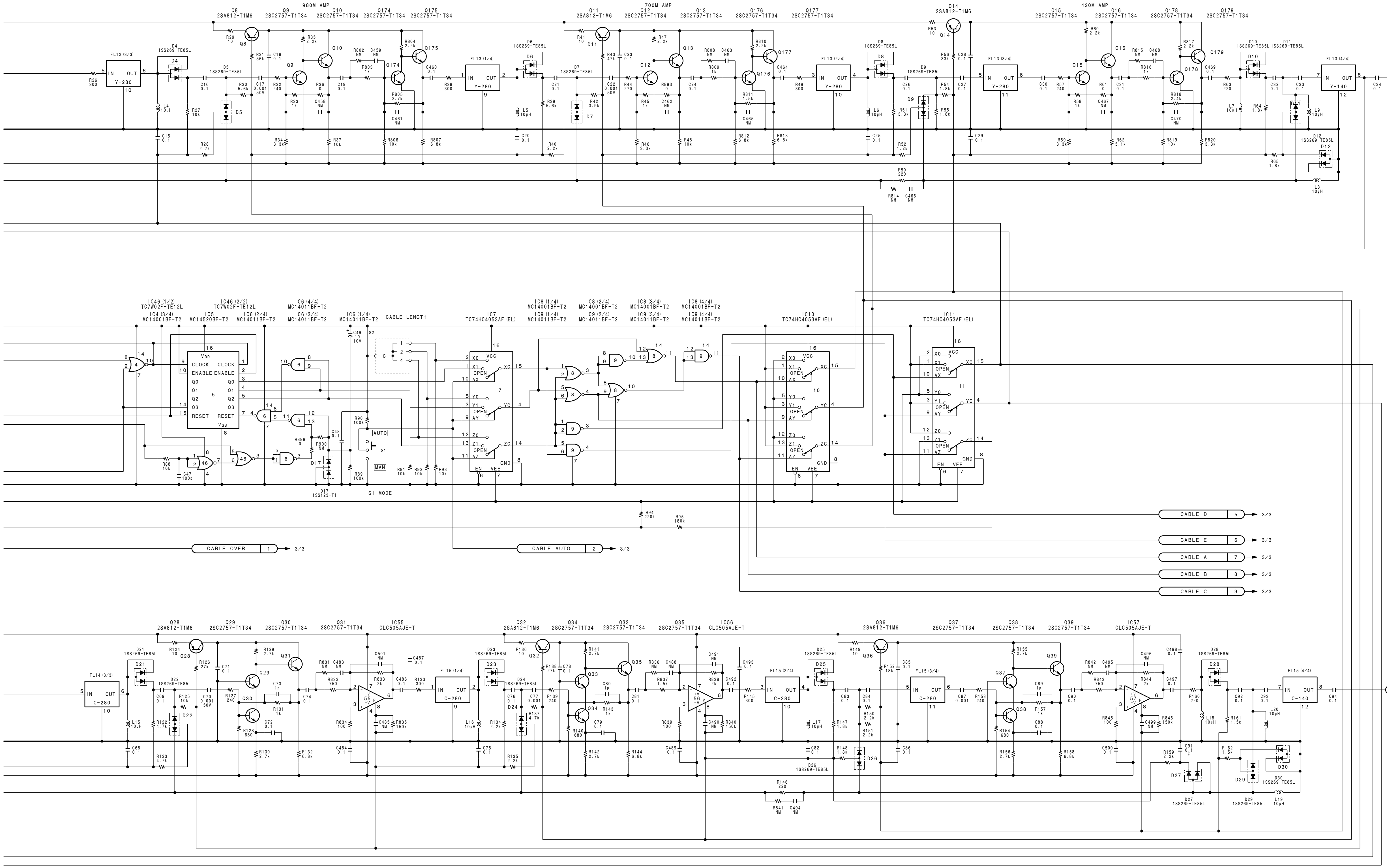
CN1	A10	FL1	G7	L10	M3	Q24	* J1	Q135	M11	TP3	L6
CN2	A5	FL2	F7	L11	L1	Q25	* J1	Q136	M11	TP4	K6
CN3	M3	FL3	F6	L12	H1	Q26	* J2	Q137	* H9	TP5	K7
CN4	B4	FL4	D7	L13	G4	Q27	* H1	Q138	* G9	TP6	J6
CN5	L1	FL5	H5	L14	J2	Q28	* H2	Q139	* H10	TP7	K6
CN6	N10	FL6	F4	L15	H2	Q29	* H2	Q140	* H9	TP8	J8
CN7	L8	FL7	D5	L16	J3	Q30	* G2	Q141	L9	TP9	G6
CN8	B4	FL8	G11	L17	K3	Q31	* H2	Q142	L10	TP10	F8
CN9	B3	FL9	M11	L18	L4	Q32	* H3	Q143	L9	TP11	R8
		FL10	H10	L19	L4	Q33	* H3	Q144	M9	TP12	C6
CV1	K11	FL11	P9	L20	L3	Q34	* H4	Q145	* B1	TP13	L5
CV2	M10	FL12	M4	L30	L7	Q35	* J3	Q146	* C2	TP14	K5
CV3	L9	FL13	R6	L31	N7	Q36	* K4	Q147	* D1	TP15	G5
		FL14	L2	L32	N7	Q37	* K3	Q148	D10	TP16	F5
DL1	D7	FL15	H3	L33	N7	Q38	* K3	Q149	D9	TP17	R8
				L34	M7	Q39	* K3	Q150	D9	TP18	B5
D1	* N4	F1	A1	L37	L7	Q50	* N7	Q151	D8	TP19	R8
D2	* P3	F2	A2	L38	H8	Q51	* N7	Q152	* C9	TP20	J11
D3	* P3	F3	B3	L39	H6	Q52	* M7	Q153	C11	TP21	P10
D4	* R3			L40	F6	Q53	* M7	Q154	C10	TP22	M8
D5	* R4	IC1	M2	L41	F8	Q54	* M7	Q155	* H11	TP23	B2
D6	* R6	IC2	N1	L42	C6	Q55	* K7	Q156	* L11	TP24	C3
D7	* R6	IC3	M1	L43	C8	Q56	* K7	Q157	H8	TP25	D1
D8	* P6	IC4	N2	L44	F8	Q57	* J7	Q158	H9	TP26	F8
D9	* P5	IC5	P2	L50	K4	Q58	* H7	Q159	K8		
D10	* N5	IC6	P2	L51	K6	Q60	* G7	Q160	K8	T1	L9
D11	* N6	IC7	P2	L52	M5	Q61	* G7	Q161	* M8		
D12	* N6	IC8	R2	L53	M5	Q62	* F6	Q162	* M8	X1	G7
D13	* M2	IC9	P2	L54	L5	Q63	* F7	Q163	* N8	X2	F5
D14	* M2	IC10	R3	L55	E4	Q64	E7	Q164	* N8		
D15	* M2	IC11	P3	L56	E5	Q65	E7	Q165	H9		
D16	* N3	IC12	M7	L57	B5	Q66	E7	Q166	G9		
D17	* N2	IC13	L7	L58	B5	Q67	* D7	Q167	R10		
D18	* K2	IC14	K7	L59	C4	Q68	* C7	Q168	R10		
D19	* J1	IC15	K7	L60	B4	Q69	* C7	Q170	* N4		
D20	* J2	IC16	J7	L61	B4	Q70	* C8	Q171	* N4		
D21	* H2	IC17	J7	L62	F5	Q71	G6	Q172	* R4		
D22	* H2	IC18	H7	L70	D9	Q72	F6	Q173	* R4		
D23	* J3	IC19	G7	L71	D10	Q73	G6	Q174	* R4		
D24	* H3	IC20	E7	L74	G10	Q74	F6	Q175	* R4		
D25	* J3	IC21	D7	L75	F11	Q80	L5	Q176	* P5		
D26	* J3	IC22	C7	L76	K10	Q81	* L5	Q177	* P5		
D27	* L3	IC23	J6	L77	K11	Q82	* L5	Q178	* N5		
D28	* L3	IC24	K5	L78	J11	Q83	L5	Q179	* M5		
D29	* L3	IC25	J5	L79	K10	Q84	* L5	Q180	J4		
D30	* L3	IC26	H5	L80	K11	Q85	* L5	Q181	D4		
D40	* N7	IC27	G5	L81	K11	Q86	* L5	Q182	H7		
D41	* N7	IC29	E5	L82	H8	Q87	* K5	Q183	* G7		
D42	* H7	IC30	C5	L83	G9	Q88	* J5	Q184	* G7		
D43	* E6	IC31	C5	L84	J9	Q89	* J5	Q185	E6		
D44	* C7	IC32	F5	L85	K9	Q90	* J5	Q186	D11		
D50	* M5	IC33	F8	L88	M10	Q91	* G5	Q187	D10		
D51	* M5	IC34	F9	L90	N9	Q92	* H5	Q188	R10		
D52	* H5	IC36	G10	L91	M8	Q93	* G5				
D53	* D4	IC37	H9	L93	N8	Q94	* F4	RV1	M7		
D54	* C4	IC38	J9	L94	A1	Q95	* E5	RV2	K7		
D60	* F9	IC39	H11	L95	A2	Q96	* F5	RV3	J7		
D61	* G9	IC40	R8	L96	B3	Q97	* D5	RV4	K7		
D64	K11	IC41	R9	L98	C10	Q98	* D5	RV5	J7		
D65	K11	IC42	C2	L99	B8	Q99	E5	RV6	F7		
D66	R9	IC43	C2	L100	B10	Q100	* E5	RV7	F7		
D67	R10	IC44	N9	L101	R10	Q101	* D4	RV8	E7		
D68	R9	IC45	D11	L102	L9	Q102	* C5	RV9	R7		
D69	R9	IC46	N3	L103	L9	Q103	* C5	RV10	L5		
D70	* B2	IC47	D6	L104	P8	Q104	* C5	RV11	J5		
D71	* B2	IC48	C9	L105	P10	Q105	* B4	RV12	R7		
D72	C2	IC49	G9			Q106	* B4	RV13	G4		
D73	* C2	IC50	* J8	Q1	* N3	Q110	E10	RV14	G4		
		IC51	E11	Q2	* N4	Q111	F9	RV15	F4		
E1	N7	IC52	E11	Q3	* M4	Q112	E9	RV16	E5		
E2	K7	IC53	K1	Q4	* M4	Q113	E9	RV17	R7		
E3	R8	IC54	H1	Q5	* P5	Q114	F9	RV18	C4		
E4	N2	IC55	G3	Q6	* P4	Q115	E8	RV19	G11		
E5	E7	IC56	J4	Q7	* P4	Q116	* F9	RV20	J11		
E6	C6	IC57	K4	Q8	* P4	Q117	* F9	RV21	J10		
E7	M6	IC58	G8	Q9	* R4	Q118	G11	RV22	N10		
E8	G5			Q10	* R4	Q119	* G11	RV23	P10		
E9	B5	LV1	L7	Q11	* R5	Q120	* G11	RV24	G7		
E10	G9	LV2	N9	Q12	* R5	Q121	* G11				
E11	J11	LV3	N8	Q13	* R5	Q122	G11	SWF1	J9		
E12	K5			Q14	* P5	Q123	* G11				
E13	M8	L1	M3	Q15	* N5	Q126	* J11	S1	P1		
E14	R9	L2	M4	Q16	* N5	Q127	* J11	S2	P1		
E15	E10	L3	P3	Q17	* M2	Q128	K11	S3	M6		
E16	C1	L4	R3	Q18	* M2	Q129	L11	S4	K6		
		L5	R6	Q19	* L1	Q130	L11	S5	G8		
FB1	L10	L6	P6	Q20	* K1	Q131	L11	S6	M8		
FB2	M11	L7	N5	Q21	* K1	Q132	M11				
FB3	L8	L8	M6	Q22	* K2	Q133	M11	TP1	M2		
FB4	L8	L9	N6	Q23	* K1	Q134	L11	TP2	M7		

*:B SIDE


1540M AMP
1260M AMP
RF DC
MPX RF
MPX FILTER
RF AU (X) OUT
RF AU (G) OUT
RF (X) IN/OUT
RF (G) IN/OUT
RF COAX (X)
RF COAX (G)
AT. 2-D77
CN3
CN4
CN5
CN8
CN9
CN12
CN15
CNA
CNB
FL12 (1/3) EQ-Y
FL12 (2/3) Y-280
FL14 (1/3) EQ-C
FL14 (2/3) C-280
IC1 (1/2) TL062CPS-E05
IC1 (2/2) TL062CPS-E05
IC2 (1/3) MC14053BF-T2
IC2 (2/3) MC14053BF-T2
IC2 (3/3) MC14053BF-T2
IC3 (1/2) μPC393G2-E2
IC3 (2/2) μPC393G2-E2
IC4 (1/4) MC14001BF-T2
IC4 (2/4) MC14001BF-T2
IC4 (4/4) MC14001BF-T2
IC53 CLC505AJE-T
IC54 CLC505AJE-T
Q17 2SA1226-T1E3
Q18 2SC1623-T1L5
2SC2757-T1T34
2SA812-T1M6
1SS269-TE85L
HSM88AS-TL
1SS123-T1
TP1
E4
5V
-5V

4-2

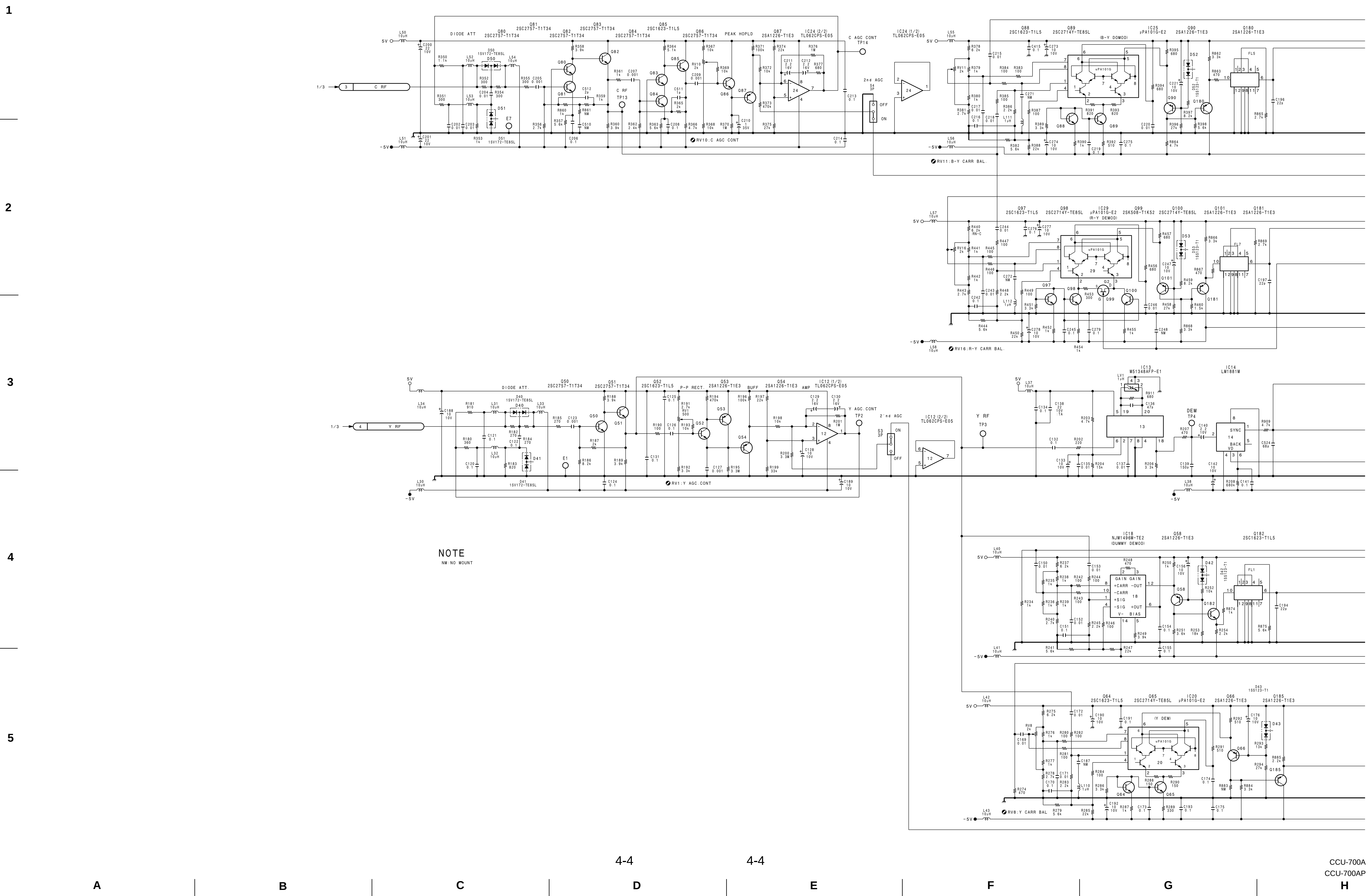
http://getMANUAL.com


980M AMP
700M AMP
420M AMP
FL12 (3/3)
Y-280
FL13 (1/4)
FL13 (2/4)
FL13 (3/4)
FL13 (4/4)
Y-140
Y RF
2/3
CABLE LENGTH
S1 MODE
AUTO
MAN
IC4 (3/4) MC14001BF-T2
IC5 MC14520BF-T2
IC7 TC74HC4053AF (EL)
IC10 TC74HC4053AF (EL)
IC11 TC74HC4053AF (EL)
CABLE OVER
CABLE AUTO
CABLE D
CABLE E
CABLE A
CABLE B
CABLE C
3/3
FL14 (3/3)
C-280
FL15 (1/4)
FL15 (2/4)
FL15 (3/4)
FL15 (4/4)
C-140
IC55 CLC505AJE-T
IC56 CLC505AJE-T
IC57 CLC505AJE-T
C RF
1
2
3
4
5

DM-94 (1/3)

BOARD NO. 1-653-238-14, 15
LOT NO. 506-
B-¥CCU700A-DM94/M

CCU-700A (J)
CCU-700A (UC)
CCU-700AP (CE)


1
2
3
4
5
A
B
C
D
E
F
G
H
1/3
C RF
Y RF
5V
-5V
DIODE ATT
DIODE ATT.
PEAK HOPLD
C AGC CONT
TP14
C RF
TP13
E7
2nd AGC
S4
OFF
ON
RV10:C AGC CONT
RV11:B-Y CARR BAL.
RV16:R-Y CARR BAL.
RV1:Y AGC CONT
RV8:Y CARR BAL.
(B-Y DEMOD)
(R-Y DEMOD)
(DUMMY DEMOD)
(Y DEM)
Q80 2SC2757-T1T34
Q81 2SC2757-T1T34
Q82 2SC2757-T1T34
Q83 2SC2757-T1T34
Q84 2SC2757-T1T34
Q85 2SC1623-T1L5
Q86 2SC2757-T1T34
Q87 2SA1226-T1E3
IC24 (2/2) TL062CPS-E05
IC24 (1/2) TL062CPS-E05
Q88 2SC1623-T1L5
Q89 2SC2714Y-TE85L
IC25 μPA101G-E2
Q90 2SA1226-T1E3
Q180 2SA1226-T1E3
FL5
D52
Q97 2SC1623-T1L5
Q98 2SC2714Y-TE85L
IC29 μPA101G-E2
Q99 2SK508-T1K52
Q100 2SC2714Y-TE85L
Q101 2SA1226-T1E3
Q181 2SA1226-T1E3
FL7
D53
Q50 2SC2757-T1T34
Q51 2SC2757-T1T34
Q52 2SC1623-T1L5
P-P RECT.
Q53 2SA1226-T1E3
BUFF
Q54 2SA1226-T1E3
AMP
IC12 (1/2) TL062CPS-E05
IC12 (2/2) TL062CPS-E05
Y AGC CONT
TP2
2'nd AGC
S3
E1
Y RF
TP3
IC13 M51348AFP-E1
IC14 LM1881M
SYNC
BACK
DEM
TP4
IC18 NJM1496M-TE2
GAIN GAIN
+CARR -OUT
-CARR
+SIG
-SIG +OUT
V- BIAS
Q58 2SA1226-T1E3
Q182 2SC1623-T1L5
FL1
D42
Q64 2SC1623-T1L5
Q65 2SC2714Y-TE85L
IC20 μPA101G-E2
Q66 2SA1226-T1E3
Q185 2SA1226-T1E3
D43 1SS123-T1
D40 1SV172-TE85L
D41 1SV172-TE85L
D50 1SV172-TE85L
D51 1SV172-TE85L
μPA101G
NOTE
NM:NO MOUNT

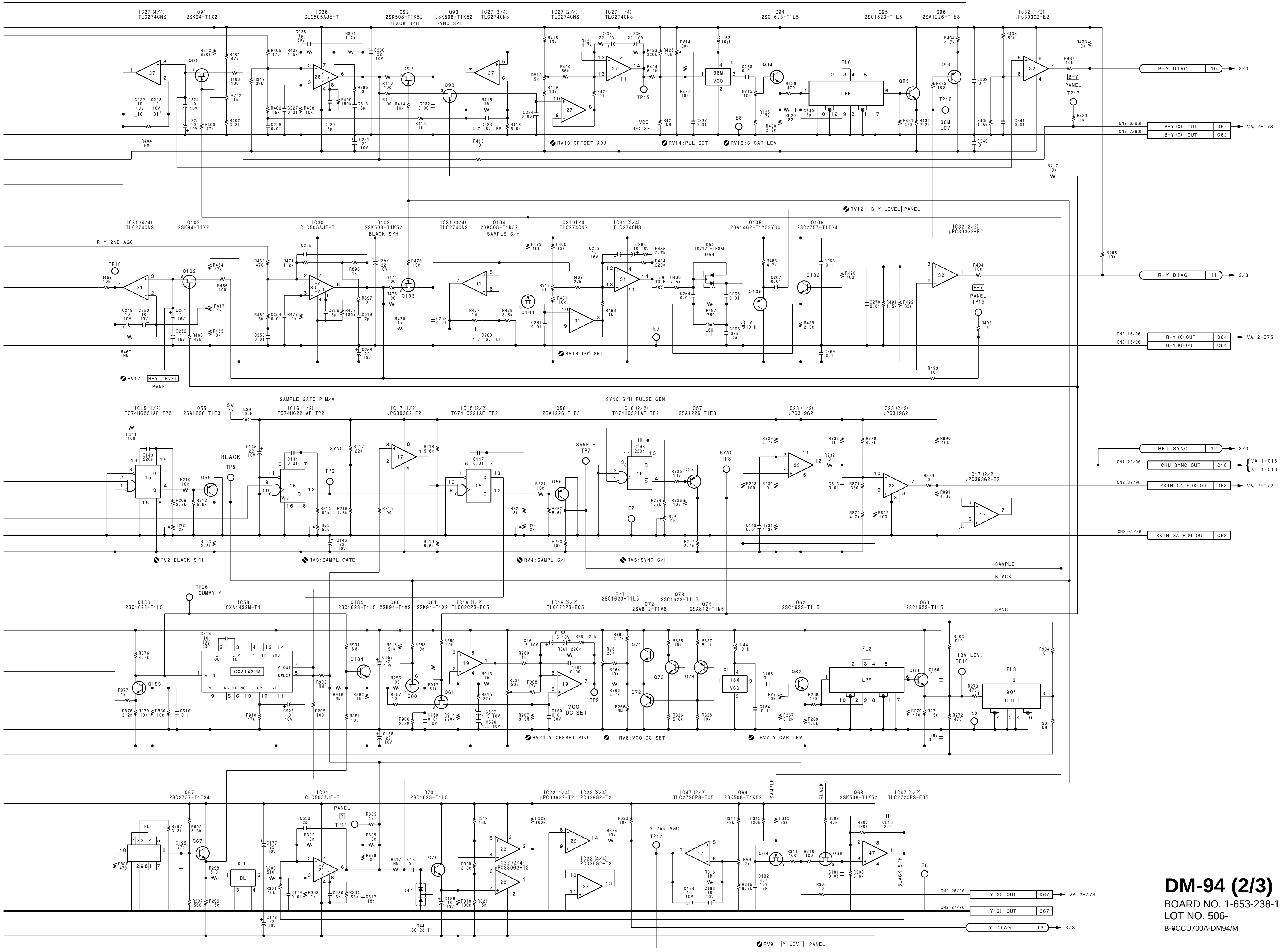
1

2

3

4

5

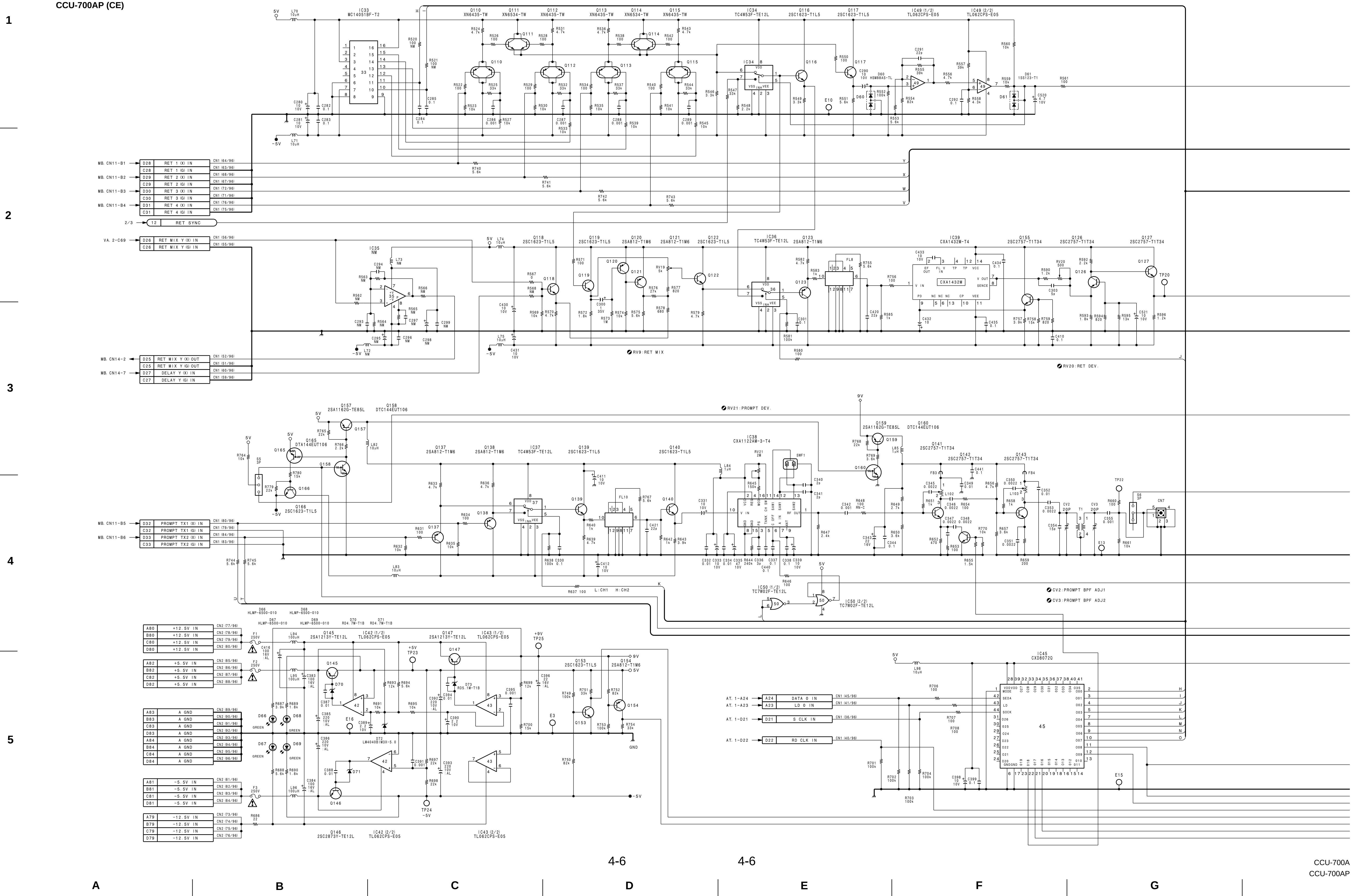

IC27 (4/4) TLC274CNS
Q91 2SK94-T1X2
IC26 CLC505AJE-T
Q92 2SK508-T1K52 BLACK S/H
Q93 2SK508-T1K52 SYNC S/H
IC27 (3/4) TLC274CNS
IC27 (2/4) TLC274CNS
IC27 (1/4) TLC274CNS
Q94 2SC1623-T1L5
Q95 2SC1623-T1L5
Q96 2SA1226-T1E3
IC32 (1/2) μPC393G2-E2
VCO DC SET
RV13:OFFSET ADJ
RV14:PLL SET
RV15:C CAR LEV
36M VCO
LPF
FL6
36M LEV
TP15
TP16
TP17
E8
B-Y DIAG 10 3/3
B-Y PANEL
B-Y (X) OUT D62 VA. 2-C78
B-Y (G) OUT C62
RV12: B-Y LEVEL PANEL
IC31 (4/4) TLC274CNS
Q102 2SK94-T1X2
IC30 CLC505AJE-T
Q103 2SK508-T1K52 BLACK S/H
IC31 (3/4) TLC274CNS
Q104 2SK508-T1K52 SAMPLE S/H
IC31 (1/4) TLC274CNS
IC31 (2/4) TLC274CNS
Q105 2SA1462-T1Y33Y34
Q106 2SC2757-T1T34
IC32 (2/2) μPC393G2-E2
D54 1SV172-TE85L
R-Y 2ND AGC
TP18
E9
RV18:90° SET
RV17: R-Y LEVEL PANEL
R-Y DIAG 11 3/3
R-Y PANEL TP19
R-Y (X) OUT D64 VA. 2-C75
R-Y (G) OUT C64
SAMPLE GATE P M/M
SYNC S/H PULSE GEN
IC15 (1/2) TC74HC221AF-TP2
Q55 2SA1226-T1E3
IC16 (1/2) TC74HC221AF-TP2
IC17 (1/2) μPC393G2-E2
IC15 (2/2) TC74HC221AF-TP2
Q56 2SA1226-T1E3
IC16 (2/2) TC74HC221AF-TP2
Q57 2SA1226-T1E3
IC23 (1/2) μPC319G2
IC23 (2/2) μPC319G2
IC17 (2/2) μPC393G2-E2
BLACK TP5
SYNC TP6
SAMPLE TP7
SYNC TP8
E2
RV2:BLACK S/H
RV3:SAMPL GATE
RV4:SAMPL S/H
RV5:SYNC S/H
RET SYNC 12 3/3
CHU SYNC OUT C18 VA. 1-C18 AT. 1-C18
SKIN GATE (X) OUT D68 VA. 2-C72
SKIN GATE (G) OUT C68
SAMPLE
BLACK
SYNC
TP26 DUMMY Y
Q183 2SC1623-T1L5
IC58 CXA1432M-T4
Q184 2SC1623-T1L5
Q60 2SK94-T1X2
Q61 2SK94-T1X2
IC19 (1/2) TL062CPS-E05
IC19 (2/2) TL062CPS-E05
Q71 2SC1623-T1L5
Q72 2SA812-T1M6
Q73 2SC1623-T1L5
Q74 2SA812-T1M6
Q62 2SC1623-T1L5
Q63 2SC1623-T1L5
CXA1432M
VCO DC SET
TP9
18M VCO
LPF
FL2
FL3 90° SHIFT
18M LEV. TP10
E5
RV24:Y OFFSET ADJ
RV6:VCO DC SET
RV7:Y CAR LEV
Q67 2SC2757-T1T34
FL4
DL1
IC21 CLC505AJE-T
PANEL Y TP11
Q70 2SC1623-T1L5
D44 1SS123-T1
IC22 (1/4) μPC339G2-T2
IC22 (3/4) μPC339G2-T2
IC22 (2/4) μPC339G2-T2
IC22 (4/4) μPC339G2-T2
Y 2nd AGC TP12
IC47 (2/2) TLC272CPS-E05
Q69 2SK508-T1K52
Q68 2SK508-T1K52
IC47 (1/2) TLC272CPS-E05
SAMPLE
BLACK
BLACK S/H
E6
Y (X) OUT D67 VA. 2-A74
Y (G) OUT C67
Y DIAG 13 3/3
RV9: Y LEV PANEL

DM-94 (2/3)

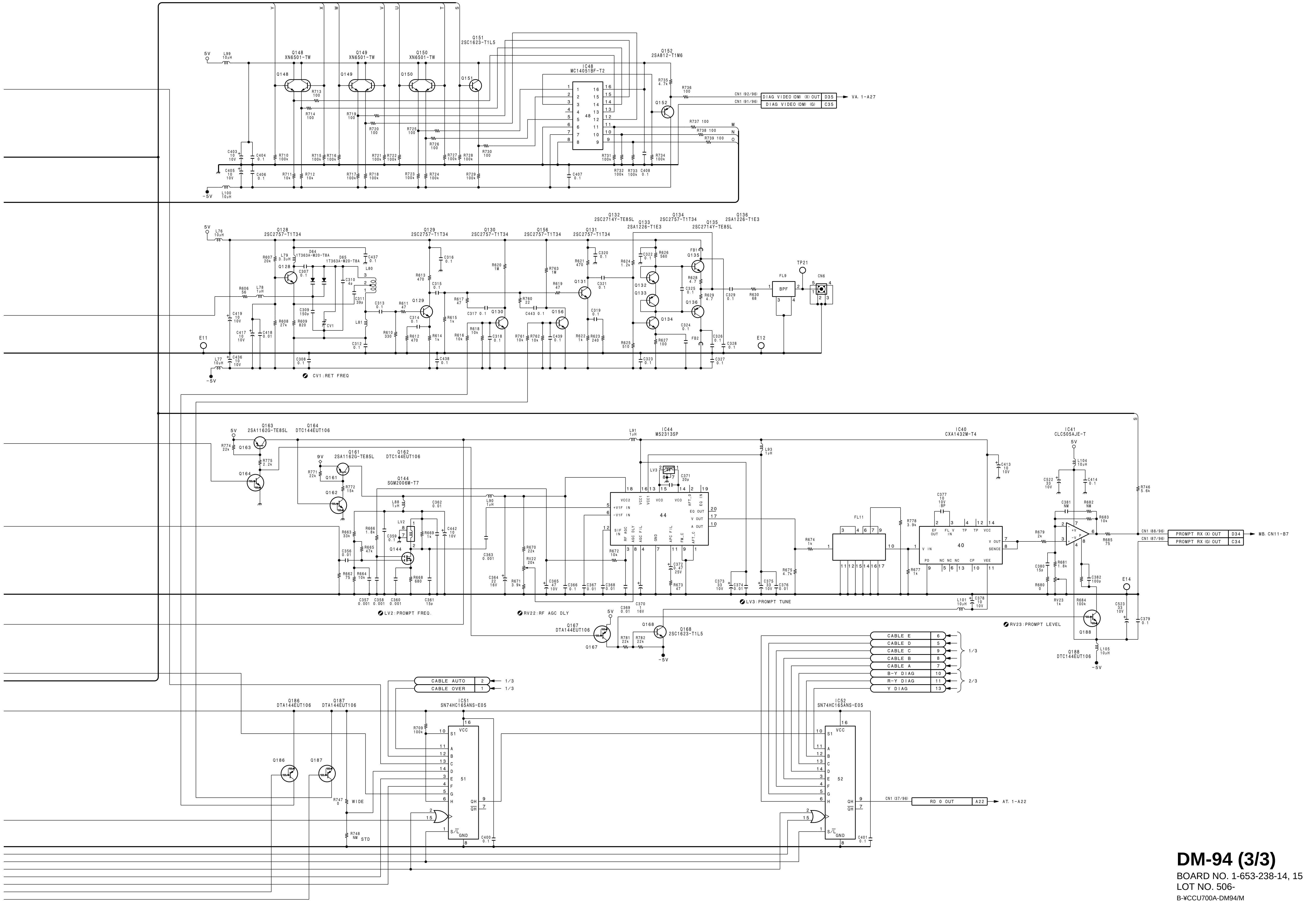
BOARD NO. 1-653-238-14, 15
LOT NO. 506-
B-¥CCU700A-DM94/M

DM-94 (3/3)

CCU-700A (J)
CCU-700A (UC)
CCU-700AP (CE)


1
2
3
4
5
A
B
C
D
E
F
G
IC33 MC14051BF-T2
Q110 XN6435-TW
Q111 XN6534-TW
Q112 XN6435-TW
Q113 XN6435-TW
Q114 XN6534-TW
Q115 XN6435-TW
IC34 TC4W53F-TE12L
Q116 2SC1623-T1L5
Q117 2SC1623-T1L5
IC49 (1/2) TL062CPS-E05
IC49 (2/2) TL062CPS-E05
RET 1 (X) IN
RET 1 (G) IN
RET 2 (X) IN
RET 2 (G) IN
RET 3 (X) IN
RET 3 (G) IN
RET 4 (X) IN
RET 4 (G) IN
RET SYNC
RET MIX Y (X) IN
RET MIX Y (G) IN
RET MIX Y (X) OUT
RET MIX Y (G) OUT
DELAY Y (X) IN
DELAY Y (G) IN
IC35 NM
Q118 2SC1623-T1L5
Q119 2SC1623-T1L5
Q120 2SA812-T1M6
Q121 2SA812-T1M6
Q122 2SC1623-T1L5
IC36 TC4W53F-TE12L
Q123 2SA812-T1M6
IC39 CXA1432M-T4
Q155 2SC2757-T1T34
Q126 2SC2757-T1T34
Q127 2SC2757-T1T34
RV9: RET MIX
RV20: RET DEV.
RV21: PROMPT DEV.
Q157 2SA1162G-TE85L
Q158 DTC144EUT106
Q165 DTA144EUT106
Q166 2SC1623-T1L5
Q137 2SA812-T1M6
Q138 2SA812-T1M6
IC37 TC4W53F-TE12L
Q139 2SC1623-T1L5
Q140 2SC1623-T1L5
IC38 CXA1122AM-3-T4
Q159 2SA1162G-TE85L
Q160 DTC144EUT106
Q141 2SC2757-T1T34
Q142 2SC2757-T1T34
Q143 2SC2757-T1T34
PROMPT TX1 (X) IN
PROMPT TX1 (G) IN
PROMPT TX2 (X) IN
PROMPT TX2 (G) IN
L: CH1 H: CH2
IC50 (1/2) TC7W02F-TE12L
IC50 (2/2) TC7W02F-TE12L
CV2: PROMPT BPF ADJ1
CV3: PROMPT BPF ADJ2
+12.5V IN
+5.5V IN
A GND
-5.5V IN
-12.5V IN
Q145 2SA1213Y-TE12L
IC42 (1/2) TL062CPS-E05
Q147 2SA1213Y-TE12L
IC43 (1/2) TL062CPS-E05
Q153 2SC1623-T1L5
Q154 2SA812-T1M6
Q146 2SC2873Y-TE12L
IC42 (2/2) TL062CPS-E05
IC43 (2/2) TL062CPS-E05
D66 HLMP-6500-010
D67 HLMP-6500-010
D68 HLMP-6500-010
D69 HLMP-6500-010
D70 RD4.7M-T1B
D71 RD4.7M-T1B
D72 LM4040BIM3X-5.0
GREEN
GND
IC45 CXD8072Q
DATA 0 IN
LD 0 IN
S CLK IN
RD CLK IN

4-6


IC48 MC14051BF-T2
Q148 XN6501-TW
Q149 XN6501-TW
Q150 XN6501-TW
Q151 2SC1623-T1L5
Q152 2SA812-T1M6
CN1 (92/96) DIAG VIDEO (DM) (X) OUT D35
CN1 (91/96) DIAG VIDEO (DM) (G) C35
VA. 1-A27
Q128 2SC2757-T1T34
Q129 2SC2757-T1T34
Q130 2SC2757-T1T34
Q156 2SC2757-T1T34
Q131 2SC2757-T1T34
Q132 2SC2714Y-TE85L
Q133 2SA1226-T1E3
Q134 2SC2757-T1T34
Q135 2SC2714Y-TE85L
Q136 2SA1226-T1E3
BPF
FL9
TP21
CN6
E11
E12
CV1:RET FREQ
Q163 2SA1162G-TE85L
Q164 DTC144EUT106
Q161 2SA1162G-TE85L
Q162 DTC144EUT106
Q144 SGM2006M-T7
LV2:PROMPT FREQ.
IC44 M52313SP
RV22:RF AGC DLY
LV3:PROMPT TUNE
IC40 CXA1432M-T4
FL11
IC41 CLC505AJE-T
CN1 (88/96) PROMPT RX (X) OUT D34
CN1 (87/96) PROMPT RX (G) OUT C34
MB. CN11-B7
E14
RV23:PROMPT LEVEL
Q188 DTC144EUT106
Q167 DTA144EUT106
Q168 2SC1623-T1L5
CABLE E
CABLE D
CABLE C
CABLE B
CABLE A
B-Y DIAG
R-Y DIAG
Y DIAG
1/3
2/3
CABLE AUTO
CABLE OVER
IC51 SN74HC165ANS-E05
IC52 SN74HC165ANS-E05
Q186 DTA144EUT106
Q187 DTA144EUT106
WIDE
STD
CN1 (37/96) RD 0 OUT A22
AT. 1-A22
5V
-5V
9V
1
2
3
4
5
I
J
K
L
M
N
O
P

DM-94 (3/3)

BOARD NO. 1-653-238-14, 15
LOT NO. 506-
B-¥CCU700A-DM94/M

VA-156A/156B/156P (1/5)

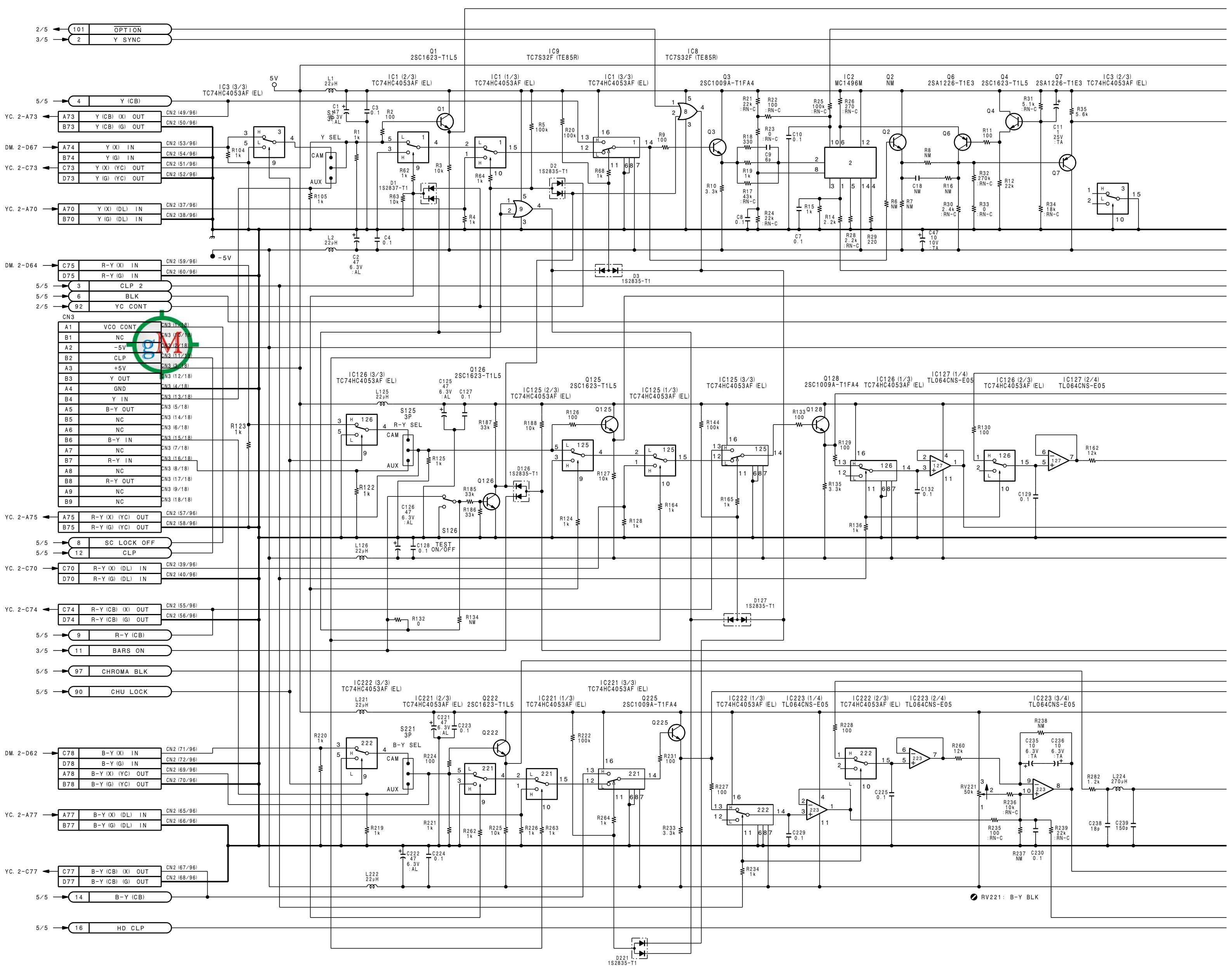
CCU-700A (J)
CCU-700A (UC)
CCU-700AP (CE)

VA-156A/156B/156P BOARD

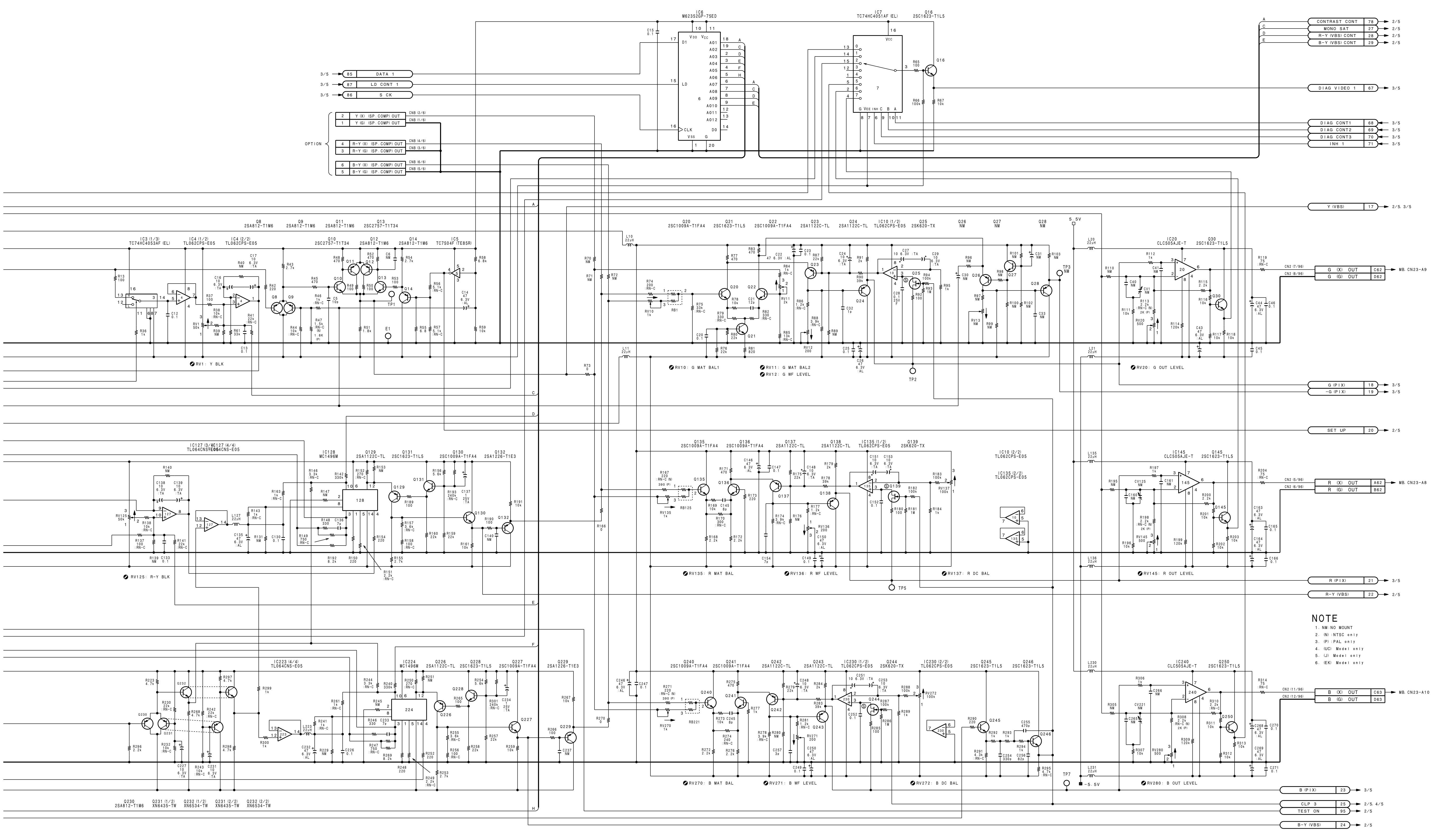
VA-156 (1-653-237-15)

CN1	A8
CN2	A4
CN3	B4
CP1891	N9
CP1892	N9
CV1501	N2
CV1602	C6
CV1603	C6
DL1501	L1
D1	C2
D2	B2
D3	C3
D126	B3
D127	C4
D221	C5
D341	D1
D342	D1
D343	D1
D344	E1
D521	H2
D522	G2
D651	H4
D931	P4
D932	P4
D933	P4
D935	P5
D1011	R4
D1012	R4
D1013	R4
D1015	R5
D1101	* N5
D1102	* R6
D1103	P6
D1104	* R6
D1301	* N3
D1302	* M4
D1304	* N4
D1361	* R3
D1362	R3
D1701	A9
D1702	A9
D1703	C9
D1781	* M7
D1782	* M7
D1783	* M7
D1784	* L7
D1785	* L7
D1790	* K7
D1891	R5
D2027	J8
D2028	J8
D2030	J7
D2031	* J7
D2032	* J7
D2033	* J7
D2202	B9
D2203	B8
D2204	G8
D2331	R7
D2332	R7
D2333	R8
D2334	R8
D2335	* B1
D2336	* B2
D2337	* B2
E1	F3
E2	H2
E3	L4
E4	P3
E5	P1
E6	E5
E7	K8
E8	K7
E9	B8
E10	D1
FL1361	L2
FL1362	L2
FL1363	N4
FL1364	R2
FL1961	R7
F2331	A2
F2332	C2
IC1	C2
IC2	C2
IC3	* C3
IC4	C3
IC5	D2
IC6	D2
IC7	D2
IC8	B2
IC9	C3
IC10	* F3
IC20	* C7
IC125	C3
IC126	* C4
IC127	C4
IC128	C3
IC135	* F4
IC145	* B7
IC221	C4
IC222	* C5
IC223	C5
IC224	C4
IC230	* F5
IC240	* E7
IC341	* D1
IC342	E1
IC343	F2
IC344	F1
IC345	G1
IC346	H1
IC347	J1
IC365	* E8
IC521	G2
IC522	G3
IC523	* H3
IC540	* C8
IC651	G4
IC652	G4
IC653	* H5
IC670	* B8
IC761	* F7
IC762	F8
IC860	* C6
IC950	* B6
IC951	* F6
IC952	* F6
IC1030	F6
IC1031	* E6
IC1101	* N6
IC1102	N5
IC1103	* P6
IC1104	P5
IC1105	R6
IC1301	L4
IC1302	M3
IC1303	N4
IC1361	N3
IC1362	P3
IC1363	P3
IC1501	K1
IC1503	* N1
IC1504	L1
IC1601	R1
IC1602	R1
IC1603	* D6
IC1604	* D6
IC1605	* C6
IC1606	E6
IC1607	N2
IC1701	* C9
IC1781	N8
IC1782	N8
IC1783	M8
IC1784	N8
IC1785	M7
IC1786	N7
IC1787	N7
IC1788	N7
IC1789	M7
IC1790	L7
IC1791	L7
IC1792	M8
IC1795	K7
IC1796	K7
IC1891	M9
IC1892	M9
IC1893	L9
IC1894	L9
IC1895	K9
IC1896	K9
IC1897	J9
IC1898	H9
IC1900	K8
IC1960	R8
IC1961	R9
IC1962	R8
IC1963	P9
IC1964	P8
IC1965	P8
IC1966	R8
IC2031	J8
IC2032	J7
IC2033	H8
IC2034	H7
IC2035	H7
IC2036	J7
IC2037	J7
IC2038	K6
IC2201	D9
IC2202	C9
IC2204	B8
IC2205	B9
IC2206	A9
IC2207	E9
IC2208	F9
IC2209	D9
IC2210	* G7
IC2211	* F9
IC2331	B2
JC1781	* L7
JC1891	* M9
JC1893	* M9
JC1895	M9
JC1898	* L9
JC1899	L9
JC1901	L9
JC1903	* K9
JC1906	* K9
JC1908	* J9
JC1911	H9
LV1011	F6
LV1361	R3
LV1601	P2
L1	* D3
L2	* D3
L10	* F3
L11	* F4
L20	C7
L21	C7
L125	* D4
L126	* D4
L127	* D4
L135	B7
L136	B7
L221	* D4
L222	* D5
L223	* D5
L224	E5
L230	D7
L231	D7
L341	* D1
L342	* D2
L350	D8
L351	D8
L521	* H2
L522	* G3
L530	C8
L531	C8
L651	* G4
L652	* G5
L660	B8
L661	B8
L761	* L4
L762	* L5
L770	E7
L771	E7
L841	* M4
L842	* M5
L850	C6
L851	C7
L931	* N4
L932	* N5
L940	B6
L941	B6
L1011	P4
L1012	P5
L1020	D6
L1021	D7
L1101	* M5
L1102	* M6
L1301	* K3
L1302	* K4
L1303	* M4
L1361	* K2
L1362	* K3
L1363	N2
L1364	P3
L1365	* P3
L1501	* J1
L1502	* J2
L1503	* K2
L1504	* M1
L1505	* M2
L1506	* K1
L1507	* J2
L1601	P2
L1602	P2
L1603	E5
L1604	* E6
L1701	* D9
L1702	* D9
L1703	B9
L1704	C9
L1781	P8
L1782	P8
L1783	P7
L1784	M8
L1785	* L7
L1891	L9
L1892	* N9
L1893	* M9
L1894	H9
L1895	N6
L1961	* P7
L1962	P9
L1963	* P9
L1964	* P8
L2031	K7
L2032	K6
L2033	K6
L2034	H7
L2201	G8
L2202	E9
L2203	* G7
L2331	A2
L2332	C2
Q1	* B2
Q3	* C2
Q4	* D2
Q6	* C2
Q7	* C3
Q8	D3
Q9	D3
Q10	* D2
Q11	* D2
Q12	* E2
Q13	* E2
Q14	D3
Q16	* D2
Q20	* E3
Q21	* E3
Q22	* E2
Q23	F2
Q24	* F3
Q25	F3
Q30	* C7
Q125	B3
Q126	* B4
Q128	* C3
Q129	* D3
Q130	* D3
Q131	D3
Q132	D3
Q135	* E4
Q136	* E3
Q137	E3
Q138	* E4
Q139	F4
Q145	* B7
Q222	* B4
Q225	* C4
Q226	* D4
Q227	* D4
Q228	D4
Q229	D4
Q230	D5
Q231	D5
Q232	D5
Q240	* E5
Q241	* E4
Q242	E4
Q243	* E5
Q244	F5
Q245	* F5
Q246	* F4
Q250	* D7
Q341	D2
Q342	E2
Q343	* D1
Q344	E1
Q345	F1
Q346	* F1
Q347	* F1
Q348	F1
Q350	F2
Q351	F1
Q352	* F1
Q353	* F1
Q354	* G1
Q355	G1
Q356	* G1
Q357	* G1
Q358	* G1
Q359	* G1
Q360	H1
Q361	H1
Q362	H1
Q363	J1
Q364	H1
Q365	* J1
Q366	H1
Q367	E1
Q368	* G1
Q385	* D8
Q386	E8
Q387	* E7
Q521	G2
Q522	* G2
Q523	* H2
Q524	G2
Q525	* H2
Q526	G3
Q527	G3
Q528	G3
Q529	H3
Q530	* H3
Q532	* H3
Q550	* C8
Q551	* D8
Q552	* D7
Q651	G4
Q652	* G4
Q653	* H4
Q654	* H4
Q655	G5
Q656	G5
Q657	G5
Q658	H5
Q659	* H5
Q661	H4
Q662	* H5
Q680	* B8
Q681	* C8
Q682	* C7
Q763	L4
Q764	M4
Q765	L4
Q766	M4
Q767	L5
Q768	M5
Q769	L5
Q770	M5
Q772	* L4
Q773	* L4
Q774	* L5
Q775	* L5
Q780	* E7
Q781	* F7
Q841	M4
Q843	M4
Q845	M5
Q849	M5
Q853	* N5
Q855	N4
Q856	N4
Q857	N5
Q859	N5
Q862	* N5
Q863	* N4
Q864	* N4
Q868	* F6
Q869	F6
Q870	* D6
Q871	* D6
Q872	* C6
Q873	D6
Q874	D6
Q931	P4
Q932	P4
Q933	P4
Q934	P4
Q935	P4
Q936	P4
Q939	P5
Q940	P5
Q941	P4
Q942	P4
Q943	P4
Q944	P4
Q945	* B6
Q946	* F6
Q947	* G6
Q948	* G6
Q949	* G6
Q951	P5
Q1011	P4
Q1012	R4
Q1013	P4
Q1014	R4
Q1015	P4
Q1016	R4
Q1019	P5
Q1020	R5
Q1021	R4
Q1022	R4
Q1023	R4
Q1024	R4
Q1026	R5
Q1030	* F6
Q1031	* F6
Q1032	* D6
Q1101	* R5
Q1102	* R6
Q1103	M5
Q1104	M5
Q1105	M6
Q1301	M4
Q1302	M3
Q1303	* M3
Q1304	* L3
Q1305	* L3
Q1306	* M3
Q1307	* M3
Q1308	* M3
Q1361	* L3
Q1362	* L3
Q1363	L3
Q1364	* M3
Q1365	* M3
Q1366	* N3
Q1367	* N3
Q1368	N3
Q1369	N3
Q1370	* N3
Q1371	* N3
Q1372	* N3
Q1373	* R3
Q1374	* R4
Q1375	* R2
Q1376	R2
Q1377	* R3
Q1378	R3
Q1501	J1
Q1502	* K1
Q1504	K1
Q1505	K2
Q1514	* N1
Q1515	* P1
Q1516	* P1
Q1517	* P1
Q1521	* K2
Q1603	* P1
Q1604	* P1
Q1605	* R2
Q1606	* R2
Q1607	* R2
Q1608	* D6
Q1609	* C5
Q1610	* B5
Q1611	* E6
Q1701	A9
Q1702	* A9
Q1703	* A9
Q1704	* A9
Q1705	A9
Q1706	* B9
Q1707	B9
Q1708	B9
Q1709	C9
Q1710	C9
Q1711	C9
Q1712	* C9
Q1713	* C9
Q1714	* D9
Q1781	* N8
Q1782	* L8
Q1783	* L8
Q1784	* K7
Q1785	* K8
Q1891	* N9
Q1892	* L9
Q1893	* H9
Q1894	* J9
Q1961	* P7
Q1962	* R7
Q2031	* H6
Q2032	H6
Q2033	* H6
Q2034	* J6
Q2035	* J6
Q2036	J6
Q2037	* J6
Q2038	J6
Q2039	* J6
Q2040	* K6
Q2041	* J6
Q2042	K6
Q2043	* K6
Q2044	J6
Q2045	* K6
Q2046	J7
Q2201	C9
Q2202	* G7
Q2203	* G7
Q2204	* G7
Q2205	C8
Q2206	B9
Q2331	B1
Q2332	D1
Q2333	A8
Q2334	* A8
Q2335	A8
RB1	E3
RB125	E4
RB221	E4
RB1361	M3
RB1362	N2
RB2031	H6
RB2032	J6
RB2033	K6
RV1	D3
RV10	F2
RV11	F2
RV12	E3
RV20	D7
RV125	D4
RV135	E4
RV136	F3
RV137	F3
RV145	C7
RV221	D5
RV270	E5
RV271	F4
RV272	F4
RV280	E7
RV341	E1
RV342	G1
RV360	E7
RV361	E7
RV521	H3
RV533	D7
RV651	H4
RV670	C7
RV761	R5
RV841	D6
RV931	C6
RV1011	E6
RV1101	R5
RV1102	R4
RV1301	L3
RV1302	L3
RV1303	R4
RV1304	R4
RV1361	N3
RV1362	R3
RV1363	R3
RV1364	R3
RV1502	K1
RV1503	K1
RV1505	M2
RV1602	R2
RV1603	C6
RV1604	B6
RV1781	N8
RV1782	L8
RV1783	M8
RV1891	M8
RV1892	K8
RV1961	R6
RV1962	R6
RV1963	R6
RV1965	R7
RV2031	H7
RV2032	H6
RV2033	K6
RV2034	J6
S1	B3
S125	B3
S126	B4
S221	B5
S1101	N6
S1102	M6
S1361	L2
S1362	N3
S1891	J8
S1892	R6
S1961	R7
S1962	R7
S2031	K7
S2032	H8
THP1	N8
TP1	E2
TP2	F3
TP4	G2
TP5	E4
TP6	G4
TP7	E5
TP8	H2
TP11	H3
TP13	H5
TP15	L4
TP16	N4
TP17	P4
TP18	R4
TP19	P3
TP20	P3
TP21	R2
TP23	P1
TP24	R1
TP25	D5
TP26	A9
TP27	C9
TP28	D9
TP29	R7
TP30	H6
TP31	J5
TP32	K5
TP33	C9
TP34	D1

*:B SIDE



VA-156A/156B/156P (1/5)


IC6 M62352GP-75ED
IC7 TC74HC4051AF (EL)
Q16 2SC1623-T1L5
DATA 1
LD CONT 1
S CK
OPTION
Y (X) (SP. COMP) OUT
Y (G) (SP. COMP) OUT
R-Y (X) (SP. COMP) OUT
R-Y (G) (SP. COMP) OUT
B-Y (X) (SP. COMP) OUT
B-Y (G) (SP. COMP) OUT
CONTRAST CONT
MONO SAT
R-Y (VBS) CONT
B-Y (VBS) CONT
DIAG VIDEO 1
DIAG CONT1
DIAG CONT2
DIAG CONT3
INH 1
Y (VBS)
G (X) OUT
G (G) OUT
MB. CN23-A9
G (PIX)
-G (PIX)
SET UP
R (X) OUT
R (G) OUT
MB. CN23-A8
R (PIX)
R-Y (VBS)
B (X) OUT
B (G) OUT
MB. CN23-A10
B (PIX)
CLP 3
TEST ON
B-Y (VBS)
RV1: Y BLK
RV10: G MAT BAL1
RV11: G MAT BAL2
RV12: G WF LEVEL
RV20: G OUT LEVEL
RV125: R-Y BLK
RV135: R MAT BAL
RV136: R WF LEVEL
RV137: R DC BAL
RV145: R OUT LEVEL
RV270: B MAT BAL
RV271: B WF LEVEL
RV272: B DC BAL
RV280: B OUT LEVEL
TP1
TP2
TP3
TP5
TP7
E1
5.5V
-5.5V
IC128 MC1496M
IC224 MC1496M
IC20 CLC505AJE-T
IC145 CLC505AJE-T
IC240 CLC505AJE-T
1
2
3
4
5

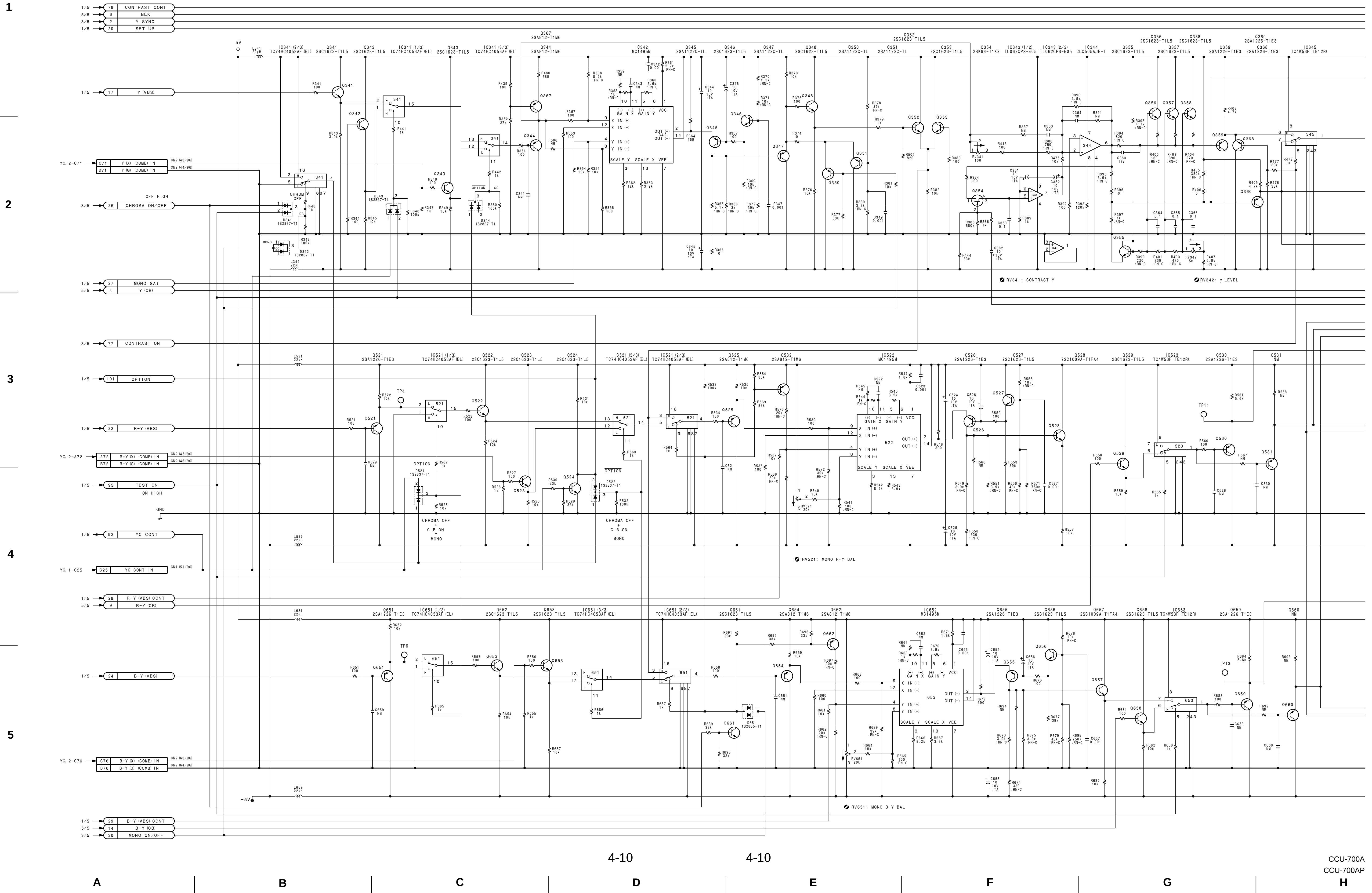
NOTE
1. NM:NO MOUNT
2. (N):NTSC only
3. (P):PAL only
4. (UC) Model only
5. (J) Model only
6. (EK) Model only

VA-156A/156B/156P (1/5)

BOARD NO. 1-653-237-15
LOT NO. 510-
B-¥CCU700A-VA156-15/M

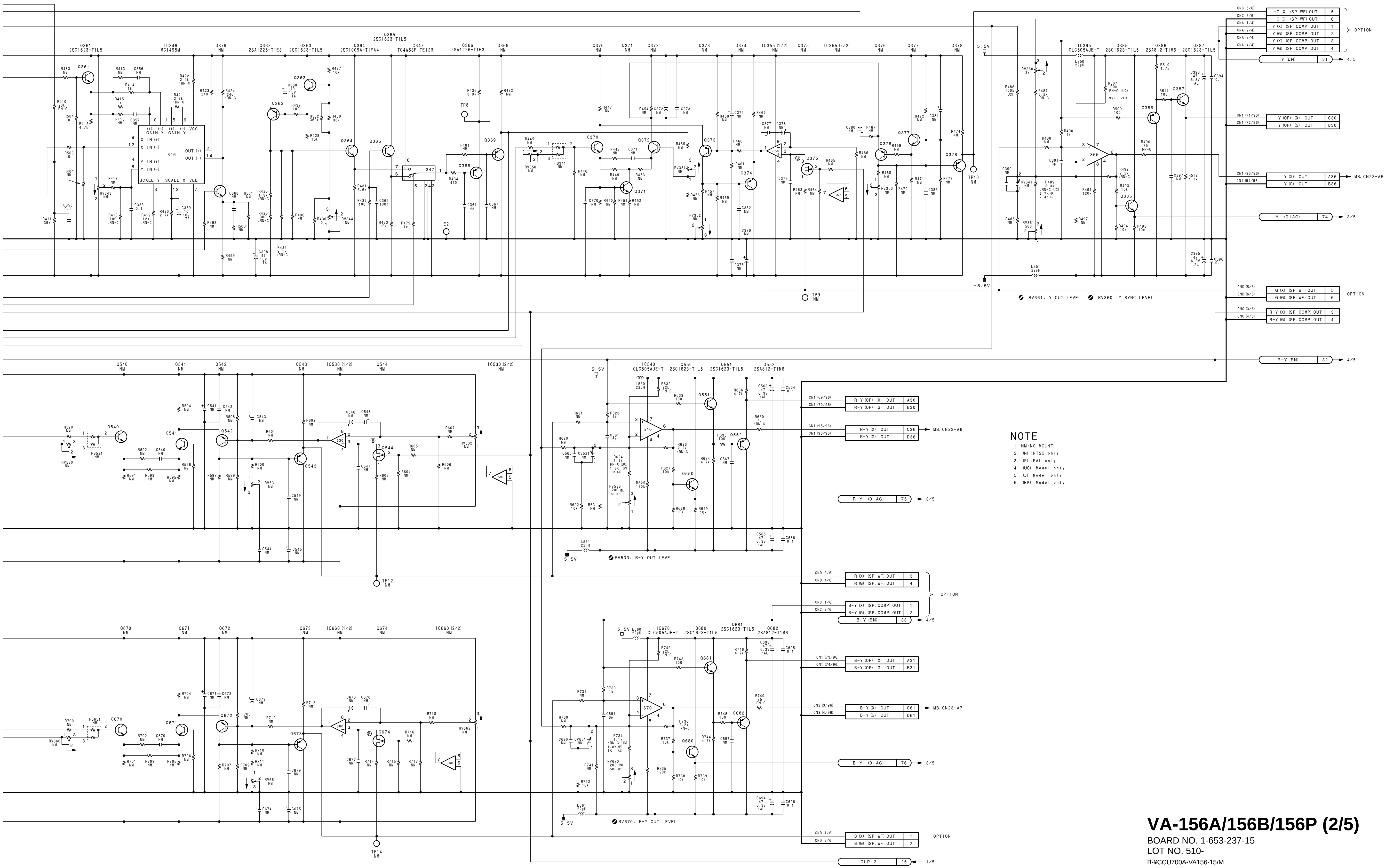
VA-156A/156B/156P (2/5)

CCU-700A (J)
CCU-700A (UC)
CCU-700AP (CE)


1
2
3
4
5
A
B
C
D
E
F
G
H
CONTRAST CONT
BLK
Y SYNC
SET UP
Y (VBS)
Y (X) (COMB) IN
Y (G) (COMB) IN
CHROMA ON/OFF
OFF HIGH
MONO SAT
Y (CB)
CONTRAST ON
OPTION
R-Y (VBS)
R-Y (X) (COMB) IN
R-Y (G) (COMB) IN
TEST ON
ON HIGH
GND
YC CONT
YC CONT IN
R-Y (VBS) CONT
R-Y (CB)
B-Y (VBS)
B-Y (X) (COMB) IN
B-Y (G) (COMB) IN
B-Y (VBS) CONT
B-Y (CB)
MONO ON/OFF
5V
-5V
IC341 TC74HC4053AF (EL)
IC342 MC1495M
IC343 TL062CPS-E05
IC344 CLC505AJE-T
IC345 TC4W53F (TE12R)
IC521 TC74HC4053AF (EL)
IC522 MC1495M
IC523 TC4W53F (TE12R)
IC651 TC74HC4053AF (EL)
IC652 MC1495M
IC653 TC4W53F (TE12R)
GAIN X GAIN Y
SCALE Y SCALE X VEE
CHROMA OFF + C B ON + MONO
RV341: CONTRAST Y
RV342: γ LEVEL
RV521: MONO R-Y BAL
RV651: MONO B-Y BAL
TP4
TP6
TP11
TP13

4-10

VA-156A/156B/156P (2/5)


Q361 2SC1623-T1L5
IC346 MC1495M
Q379 NM
Q362 2SA1226-T1E3
Q363 2SC1623-T1L5
Q364 2SC1009A-T1FA4
Q365 2SC1623-T1L5
IC347 TC4W53F (TE12R)
Q366 2SA1226-T1E3
Q369 NM
Q370 NM
Q371 NM
Q372 NM
Q373 NM
Q374 NM
IC355 (1/2) NM
Q375 NM
IC355 (2/2) NM
Q376 NM
Q377 NM
Q378 NM
IC365 CLC505AJE-T
Q385 2SC1623-T1L5
Q386 2SA812-T1M6
Q387 2SC1623-T1L5
TP8
TP9 NM
TP10 NM
E2
5.5V
-5.5V
CNC (5/6)
CNC (6/6)
CNA (1/4)
CNA (2/4)
CNA (3/4)
CNA (4/4)
-G (X) (SP.WF) OUT 5
-G (G) (SP.WF) OUT 6
Y (X) (SP.COMP) OUT 1
Y (G) (SP.COMP) OUT 2
Y (X) (SP.COMP) OUT 3
Y (G) (SP.COMP) OUT 4
OPTION
Y (EN) 31
4/5
CN1 (71/96)
CN1 (72/96)
Y (OP) (X) OUT C30
Y (OP) (G) OUT D30
CN1 (93/96)
CN1 (94/96)
Y (X) OUT A36
Y (G) OUT B36
MB, CN23-A5
Y (DIAG) 74
3/5
CND (5/6)
CND (6/6)
G (X) (SP.WF) OUT 5
G (G) (SP.WF) OUT 6
OPTION
CNC (3/6)
CNC (4/6)
R-Y (X) (SP.COMP) OUT 3
R-Y (G) (SP.COMP) OUT 4
R-Y (EN) 32
4/5
RV361: Y OUT LEVEL
RV360: Y SYNC LEVEL
Q540 NM
Q541 NM
Q542 NM
Q543 NM
IC530 (1/2) NM
Q544 NM
IC530 (2/2) NM
IC540 CLC505AJE-T
Q550 2SC1623-T1L5
Q551 2SC1623-T1L5
Q552 2SA812-T1M6
TP12 NM
RV533: R-Y OUT LEVEL
CN1 (69/96)
CN1 (70/96)
R-Y (OP) (X) OUT A30
R-Y (OP) (G) OUT B30
CN1 (95/96)
CN1 (96/96)
R-Y (X) OUT C36
R-Y (G) OUT D36
MB, CN23-A6
R-Y (DIAG) 75
3/5
CND (3/6)
CND (4/6)
R (X) (SP.WF) OUT 3
R (G) (SP.WF) OUT 4
OPTION
CNC (1/6)
CNC (2/6)
B-Y (X) (SP.COMP) OUT 1
B-Y (G) (SP.COMP) OUT 2
B-Y (EN) 33
4/5
Q670 NM
Q671 NM
Q672 NM
Q673 NM
IC660 (1/2) NM
Q674 NM
IC660 (2/2) NM
IC670 CLC505AJE-T
Q680 2SC1623-T1L5
Q681 2SC1623-T1L5
Q682 2SA812-T1M6
TP14 NM
RV670: B-Y OUT LEVEL
CN1 (73/96)
CN1 (74/96)
B-Y (OP) (X) OUT A31
B-Y (OP) (G) OUT B31
CN2 (3/96)
CN2 (4/96)
B-Y (X) OUT C61
B-Y (G) OUT D61
MB, CN23-A7
B-Y (DIAG) 76
3/5
CND (1/6)
CND (2/6)
B (X) (SP.WF) OUT 1
B (G) (SP.WF) OUT 2
OPTION
CLP 3 25
1/5
1
2
3
4
5

NOTE

1. NM:NO MOUNT
2. (N) :NTSC only
3. (P) :PAL only
4. (UC) Model only
5. (J) Model only
6. (EK) Model only

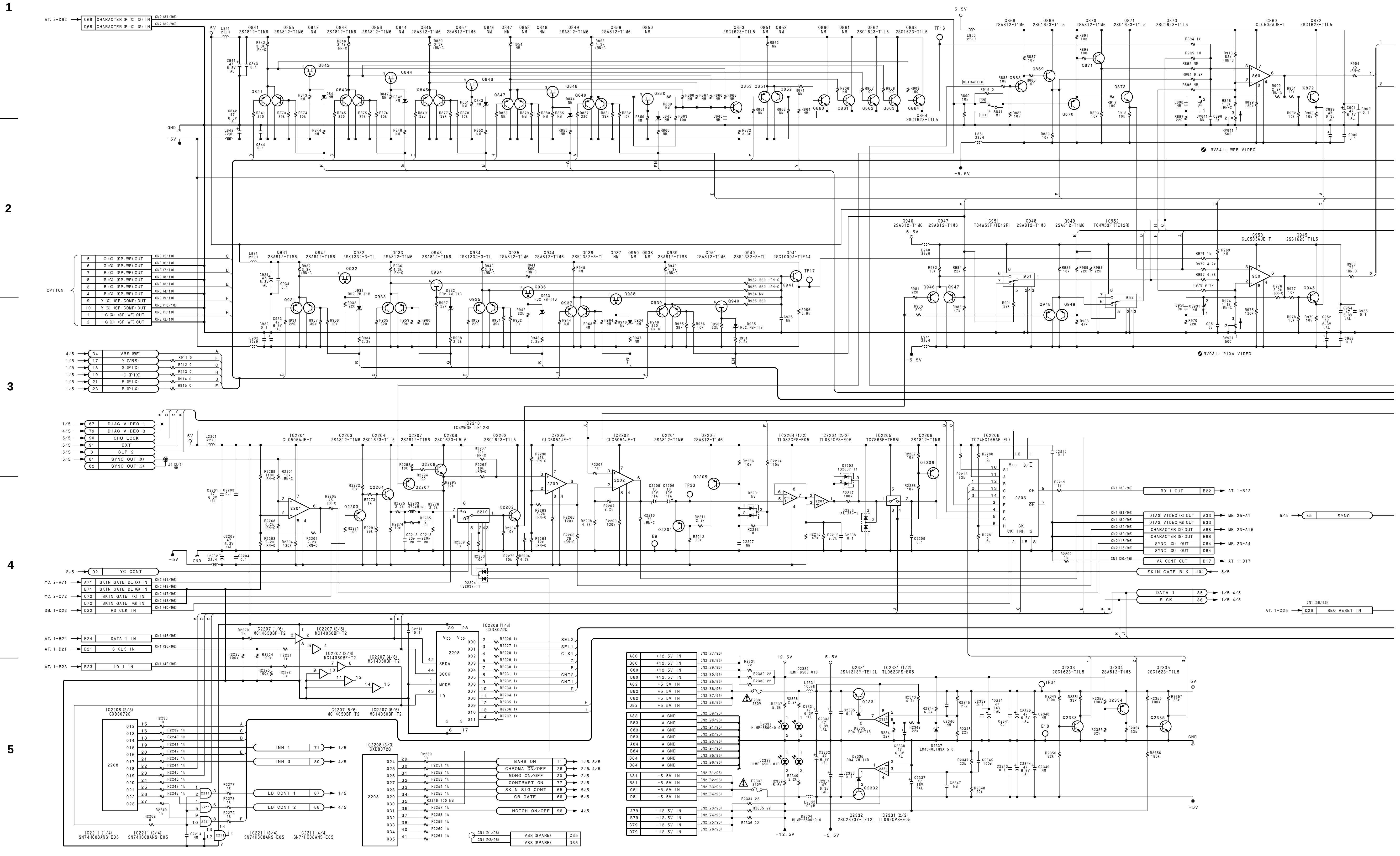
VA-156A/156B/156P (2/5)

BOARD NO. 1-653-237-15
LOT NO. 510-
B-¥CCU700A-VA156-15/M

4-11

VA-156A/156B/156P (3/5)

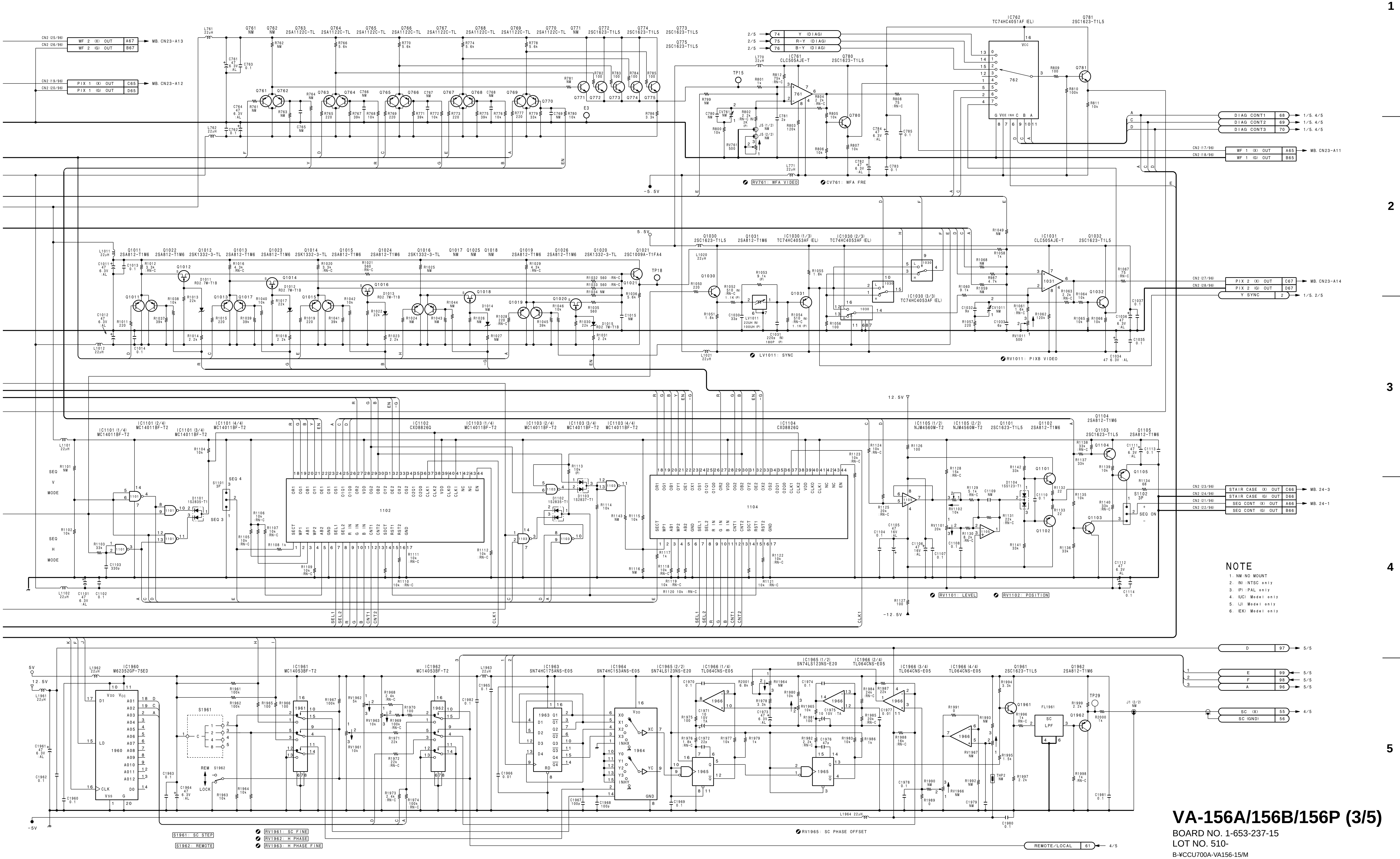
CCU-700A (J)
CCU-700A (UC)
CCU-700AP (CE)


1
2
3
4
5
AT. 2-D62
C68 CHARACTER (PIX) (X) IN
D68 CHARACTER (PIX) (G) IN
OPTION
G (X) (SP.WF) OUT
G (G) (SP.WF) OUT
R (X) (SP.WF) OUT
R (G) (SP.WF) OUT
B (X) (SP.WF) OUT
B (G) (SP.WF) OUT
Y (X) (SP.COMP) OUT
Y (G) (SP.COMP) OUT
-G (X) (SP.WF) OUT
-G (G) (SP.WF) OUT
VBS (WF)
Y (VBS)
G (PIX)
-G (PIX)
R (PIX)
B (PIX)
DIAG VIDEO 1
DIAG VIDEO 3
CHU LOCK
EXT
CLP 2
SYNC OUT (X)
SYNC OUT (G)
YC CONT
SKIN GATE DL (X) IN
SKIN GATE DL (G) IN
SKIN GATE (X) IN
SKIN GATE (G) IN
RD CLK IN
DATA 1 IN
S CLK IN
LD 1 IN
IC2208 (2/3) CXD8072Q
IC2211 (1/4) SN74HC08ANS-E05
IC2211 (2/4) SN74HC08ANS-E05
IC2211 (3/4) SN74HC08ANS-E05
IC2211 (4/4) SN74HC08ANS-E05
IC2207 (1/6) MC14050BF-T2
IC2207 (2/6) MC14050BF-T2
IC2207 (3/6) MC14050BF-T2
IC2207 (4/6) MC14050BF-T2
IC2207 (5/6) MC14050BF-T2
IC2207 (6/6) MC14050BF-T2
IC2208 (1/3) CXD8072Q
IC2208 (3/3) CXD8072Q
INH 1
INH 3
LD CONT 1
LD CONT 2
BARS ON
CHROMA ON/OFF
MONO ON/OFF
CONTRAST ON
SKIN SIG CONT
CB GATE
NOTCH ON/OFF
VBS (SPARE)
IC2201 CLC505AJE-T
IC2210 TC4W53F (TE12R)
IC2209 CLC505AJE-T
IC2202 CLC505AJE-T
IC2204 (1/2) TL082CPS-E05
IC2204 (2/2) TL082CPS-E05
IC2205 TC7S66F-TE85L
IC2206 TC74HC165AF (EL)
RD 1 OUT
DIAG VIDEO (X) OUT
DIAG VIDEO (G) OUT
CHARACTER (X) OUT
CHARACTER (G) OUT
SYNC (X) OUT
SYNC (G) OUT
VA CONT OUT
SKIN GATE BLK
DATA 1
S CK
SYNC
SEQ RESET IN
AT. 1-B22
MB. 25-A1
MB. 23-A15
MB. 23-A4
AT. 1-D17
AT. 1-C25
+12.5V IN
+5.5V IN
A GND
-5.5V IN
-12.5V IN
IC2331 (1/2) TL062CPS-E05
IC2331 (2/2) TL062CPS-E05
Q2331 2SA1213Y-TE12L
Q2332 2SC2873Y-TE12L
Q2333 2SC1623-T1L5
Q2334 2SA812-T1M6
Q2335 2SC1623-T1L5
IC860 CLC505AJE-T
IC950 CLC505AJE-T
IC951 TC4W53F (TE12R)
IC952 TC4W53F (TE12R)
RV841: WFB VIDEO
RV931: PIXA VIDEO
CHARACTER
TP16
TP17
TP33
TP34
E9
E10
5.5V
-5.5V
12.5V
-12.5V
5V
-5V
GND
A
B
C
D
E
F
G
H

4-12

CCU-700A
CCU-700AP

http://getMANUAL.com


IC762 TC74HC4051AF (EL)
Q781 2SC1623-T1L5
IC761 CLC505AJE-T
Q780 2SC1623-T1L5
Q761 NM
Q762 NM
Q763 2SA1122C-TL
Q764 2SA1122C-TL
Q765 2SA1122C-TL
Q766 2SA1122C-TL
Q767 2SA1122C-TL
Q768 2SA1122C-TL
Q769 2SA1122C-TL
Q770 2SA1122C-TL
Q771 NM
Q772 2SC1623-T1L5
Q774 2SC1623-T1L5
Q773 2SC1623-T1L5
Q775 2SC1623-T1L5
WF 2 (X) OUT A67
WF 2 (G) OUT B67
MB. CN23-A13
PIX 1 (X) OUT C65
PIX 1 (G) OUT D65
MB. CN23-A12
Y (DIAG) 74
R-Y (DIAG) 75
B-Y (DIAG) 76
DIAG CONT1 68
DIAG CONT2 69
DIAG CONT3 70
1/5. 4/5
WF 1 (X) OUT A65
WF 1 (G) OUT B65
MB. CN23-A11
RV761: WFA VIDEO
CV761: WFA FRE
-5.5V
5.5V
IC1030 (1/3) TC74HC4053AF (EL)
IC1030 (2/3) TC74HC4053AF (EL)
IC1030 (3/3) TC74HC4053AF (EL)
IC1031 CLC505AJE-T
Q1030 2SC1623-T1L5
Q1031 2SA812-T1M6
Q1032 2SC1623-T1L5
PIX 2 (X) OUT C67
PIX 2 (G) OUT D67
Y SYNC 2
MB. CN23-A14
1/5. 2/5
LV1011: SYNC
RV1011: PIXB VIDEO
12.5V
-12.5V
IC1101 (1/4) MC14011BF-T2
IC1101 (2/4) MC14011BF-T2
IC1101 (3/4) MC14011BF-T2
IC1101 (4/4) MC14011BF-T2
IC1102 CXD8826Q
IC1103 (1/4) MC14011BF-T2
IC1103 (2/4) MC14011BF-T2
IC1103 (3/4) MC14011BF-T2
IC1103 (4/4) MC14011BF-T2
IC1104 CXD8826Q
IC1105 (1/2) NJM4560M-T2
IC1105 (2/2) NJM4560M-T2
Q1101 2SC1623-T1L5
Q1102 2SA812-T1M6
Q1103 2SC1623-T1L5
Q1104 2SA812-T1M6
Q1105 2SA812-T1M6
SEQ V MODE
SEQ H MODE
SEQ ON
STAIR CASE (X) OUT C66
STAIR CASE (G) OUT D66
SEQ CONT (X) OUT A66
SEQ CONT (G) OUT B66
MB. 24-3
MB. 24-1
RV1101: LEVEL
RV1102: POSITION
IC1960 M62352GP-75ED
IC1961 MC14053BF-T2
IC1962 MC14053BF-T2
IC1963 SN74HC175ANS-E05
IC1964 SN74HC153ANS-E05
IC1965 (1/2) SN74LS123NS-E20
IC1965 (2/2) SN74LS123NS-E20
IC1966 (1/4) TL064CNS-E05
IC1966 (2/4) TL064CNS-E05
IC1966 (3/4) TL064CNS-E05
IC1966 (4/4) TL064CNS-E05
Q1961 2SC1623-T1L5
Q1962 2SA812-T1M6
S1961
S1962 REM LOCK
5V
12.5V
-5V
D 97
E 99
F 98
A 96
SC (X) 55
SC (GND) 56
5/5
4/5
REMOTE/LOCAL 61
S1961: SC STEP
S1962: REMOTE
RV1961: SC FINE
RV1962: H PHASE
RV1963: H PHASE FINE
RV1965: SC PHASE OFFSET
1
2
3
4
5
I
J
K
L
M
N
O
P

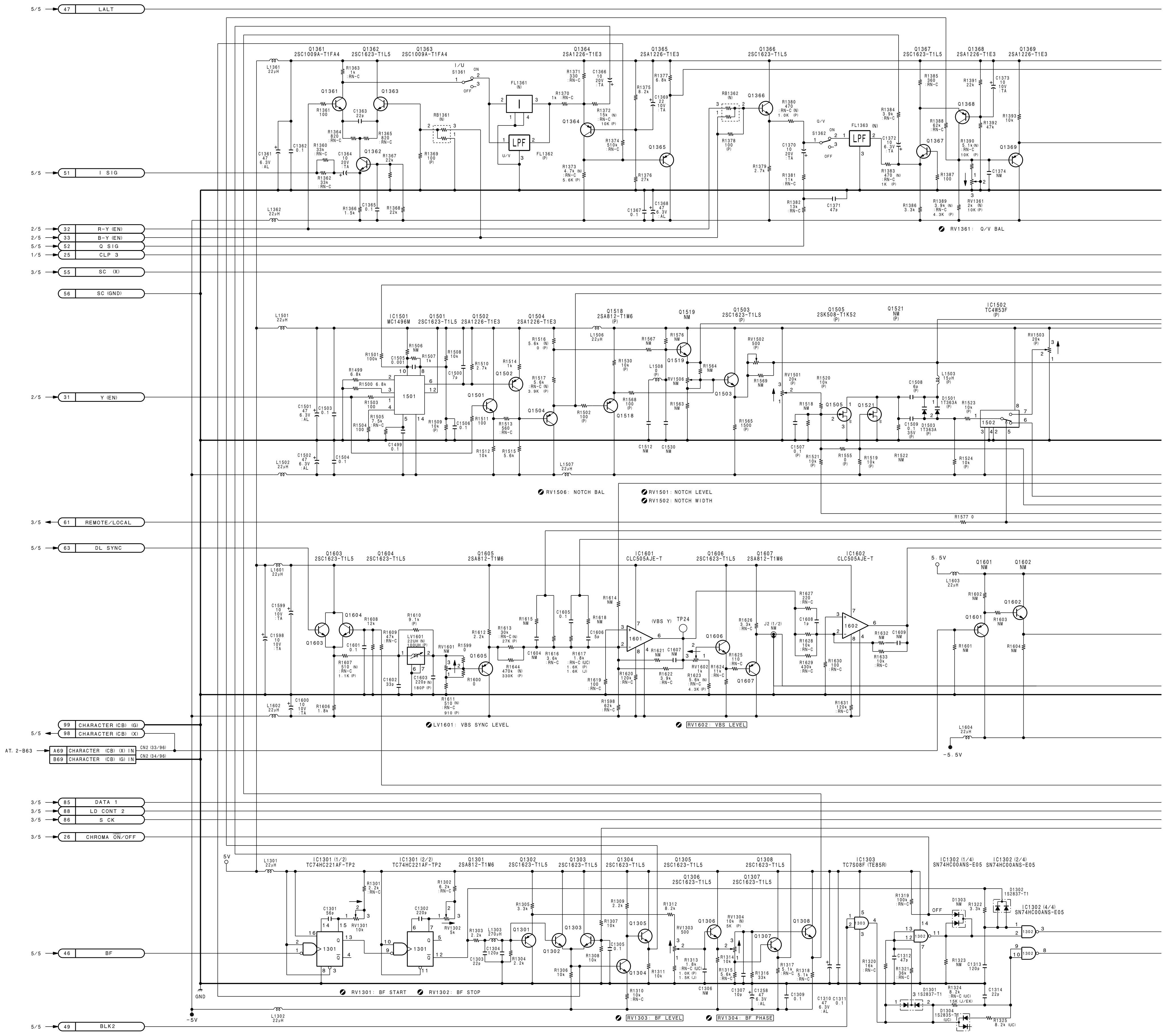
NOTE
1. NM:NO MOUNT
2. (N):NTSC only
3. (P):PAL only
4. (UC) Model only
5. (J) Model only
6. (EK) Model only

VA-156A/156B/156P (3/5)

BOARD NO. 1-653-237-15
LOT NO. 510-
B-¥CCU700A-VA156-15/M

VA-156A/156B/156P (4/5)

CCU-700A (J)
CCU-700A (UC)
CCU-700AP (CE)


5/5 47 LALT
5/5 51 I SIG
2/5 32 R-Y (EN)
2/5 33 B-Y (EN)
5/5 52 Q SIG
1/5 25 CLP 3
3/5 55 SC (X)
56 SC (GND)
2/5 31 Y (EN)
3/5 61 REMOTE/LOCAL
5/5 63 DL SYNC
99 CHARACTER (CB) (G)
5/5 98 CHARACTER (CB) (X)
AT. 2-B63 A69 CHARACTER (CB) (X) IN CN2 (33/96)
B69 CHARACTER (CB) (G) IN CN2 (34/96)
3/5 85 DATA 1
3/5 88 LD CONT 2
3/5 86 S CK
3/5 26 CHROMA ON/OFF
5/5 46 BF
5/5 49 BLK2
GND
-5V
5V
5.5V
-5.5V
Q1361 2SC1009A-T1FA4
Q1362 2SC1623-T1L5
Q1363 2SC1009A-T1FA4
Q1364 2SA1226-T1E3
Q1365 2SA1226-T1E3
Q1366 2SC1623-T1L5
Q1367 2SC1623-T1L5
Q1368 2SA1226-T1E3
Q1369 2SA1226-T1E3
FL1361
FL1362
FL1363
LPF
S1361 I/U
S1362 Q/V
RV1361: Q/V BAL
IC1501 MC1496M
Q1501 2SC1623-T1L5
Q1502 2SA1226-T1E3
Q1504 2SA1226-T1E3
Q1518 2SA812-T1M6
Q1519 NM
Q1503 2SC1623-T1L5
Q1505 2SK508-T1K52
Q1521 NM
IC1502 TC4W53F
RV1506: NOTCH BAL
RV1501: NOTCH LEVEL
RV1502: NOTCH WIDTH
Q1603 2SC1623-T1L5
Q1604 2SC1623-T1L5
Q1605 2SA812-T1M6
IC1601 CLC505AJE-T
Q1606 2SC1623-T1L5
Q1607 2SA812-T1M6
IC1602 CLC505AJE-T
Q1601 NM
Q1602 NM
TP24
(VBS Y)
LV1601: VBS SYNC LEVEL
RV1602: VBS LEVEL
IC1301 (1/2) TC74HC221AF-TP2
IC1301 (2/2) TC74HC221AF-TP2
Q1301 2SA812-T1M6
Q1302 2SC1623-T1L5
Q1303 2SC1623-T1L5
Q1304 2SC1623-T1L5
Q1305 2SC1623-T1L5
Q1306 2SC1623-T1L5
Q1307 2SC1623-T1L5
Q1308 2SC1623-T1L5
IC1303 TC7S08F (TE85R)
IC1302 (1/4) SN74HC00ANS-E05
IC1302 (2/4) SN74HC00ANS-E05
IC1302 (4/4) SN74HC00ANS-E05
RV1301: BF START
RV1302: BF STOP
RV1303: BF LEVEL
RV1304: BF PHASE
1
2
3
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A
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C
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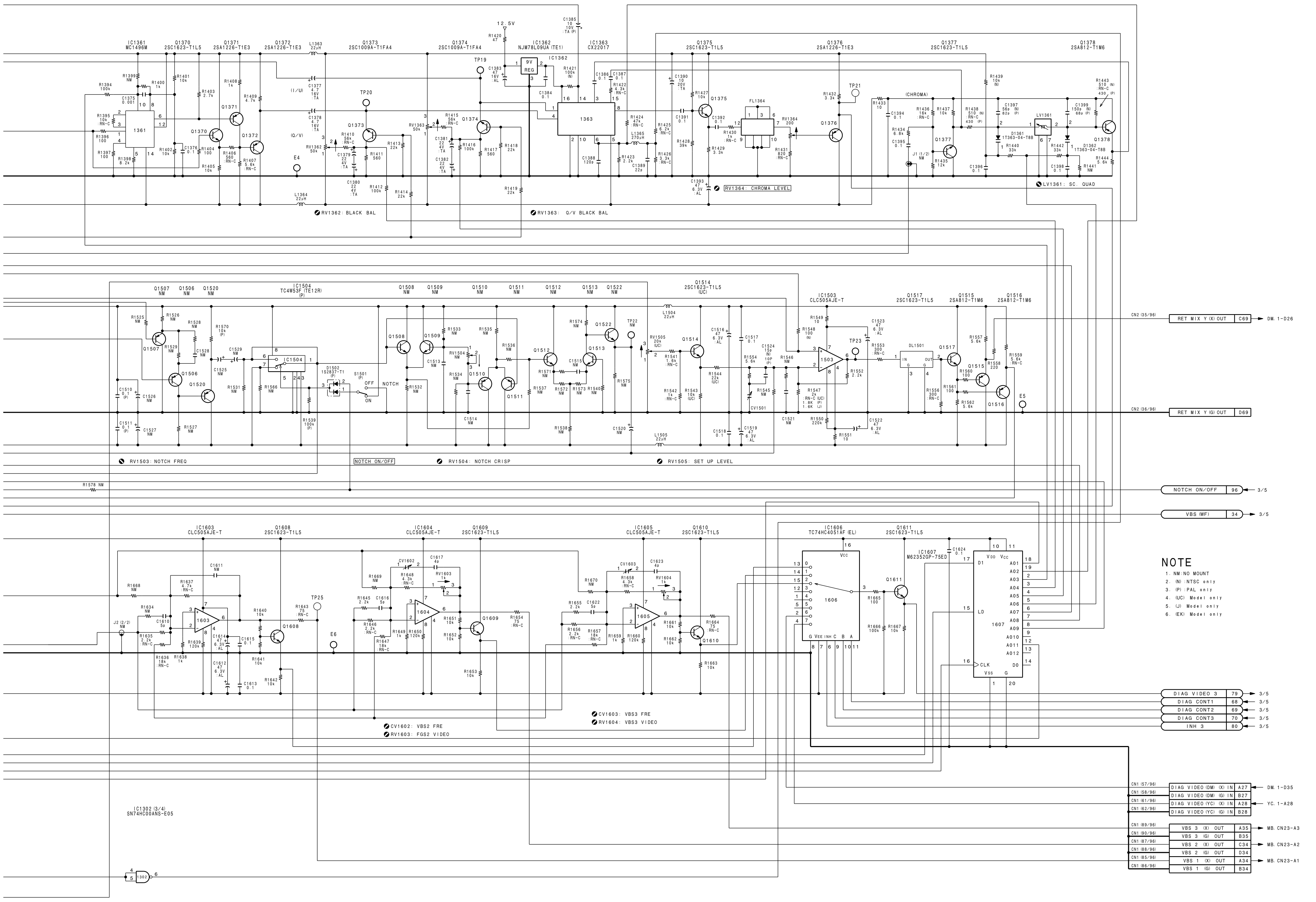
G
H

VA-156A/156B/156P (4/5)


IC1361 MC1496M
Q1370 2SC1623-T1L5
Q1371 2SA1226-T1E3
Q1372 2SA1226-T1E3
Q1373 2SC1009A-T1FA4
Q1374 2SC1009A-T1FA4
IC1362 NJM78L09UA(TE1)
IC1363 CX22017
Q1375 2SC1623-T1L5
Q1376 2SA1226-T1E3
Q1377 2SC1623-T1L5
Q1378 2SA812-T1M6
12.5V
TP19
TP20
TP21
E4
FL1364
(CHROMA)
LV1361
(I/U)
(Q/V)
RV1362: BLACK BAL
RV1363: Q/V BLACK BAL
RV1364: CHROMA LEVEL
LV1361: SC. QUAD
Q1507 NM
Q1506 NM
Q1520 NM
IC1504 TC4W53F(TE12R) (P)
Q1508 NM
Q1509 NM
Q1510 NM
Q1511 NM
Q1512 NM
Q1513 NM
Q1522 NM
Q1514 2SC1623-T1L5 (UC)
IC1503 CLC505AJE-T
Q1517 2SC1623-T1L5
Q1515 2SA812-T1M6
Q1516 2SA812-T1M6
D1502 1SS237-T1 (P)
S1501 (P) OFF ON
NOTCH
TP22 NM
TP23
DL1501
E5
RV1503: NOTCH FREQ
NOTCH ON/OFF
RV1504: NOTCH CRISP
RV1505: SET UP LEVEL
R1578 NM
CN2 (35/96) RET MIX Y (X) OUT C69 DM, 1-D26
CN2 (36/96) RET MIX Y (G) OUT D69
NOTCH ON/OFF 96 3/5
VBS (WF) 34 3/5
IC1603 CLC505AJE-T
Q1608 2SC1623-T1L5
IC1604 CLC505AJE-T
Q1609 2SC1623-T1L5
IC1605 CLC505AJE-T
Q1610 2SC1623-T1L5
IC1606 TC74HC4051AF(EL)
Q1611 2SC1623-T1L5
IC1607 M62352GP-75ED
J2 (2/2) NM
TP25
E6
CV1602: VBS2 FRE
RV1603: FGS2 VIDEO
CV1603: VBS3 FRE
RV1604: VBS3 VIDEO
DIAG VIDEO 3 79 3/5
DIAG CONT1 68 3/5
DIAG CONT2 69 3/5
DIAG CONT3 70 3/5
INH 3 80 3/5
CN1 (57/96) DIAG VIDEO (DM) (X) IN A27 DM, 1-D35
CN1 (58/96) DIAG VIDEO (DM) (G) IN B27
CN1 (61/96) DIAG VIDEO (YC) (X) IN A28 YC, 1-A28
CN1 (62/96) DIAG VIDEO (YC) (G) IN B28
CN1 (89/96) VBS 3 (X) OUT A35 MB, CN23-A3
CN1 (90/96) VBS 3 (G) OUT B35
CN1 (87/96) VBS 2 (X) OUT C34 MB, CN23-A2
CN1 (88/96) VBS 2 (G) OUT D34
CN1 (85/96) VBS 1 (X) OUT A34 MB, CN23-A1
CN1 (86/96) VBS 1 (G) OUT B34
IC1302 (3/4) SN74HC00ANS-E05
1
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3
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I
J
K
L
M
N
O
P

NOTE

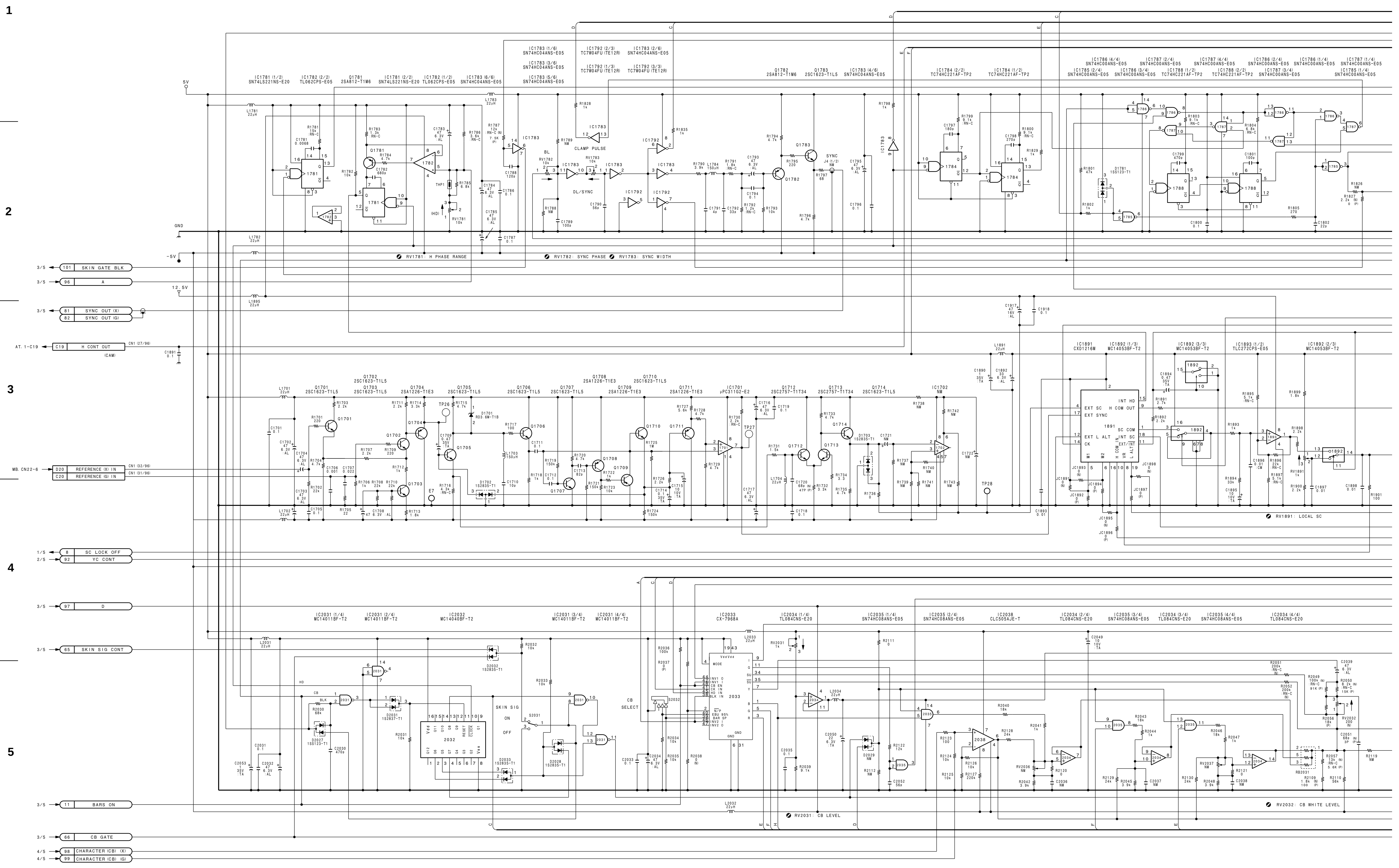
1. NM: NO MOUNT
2. (N): NTSC only
3. (P): PAL only
4. (UC) Model only
5. (J) Model only
6. (EK) Model only

VA-156A/156B/156P (4/5)

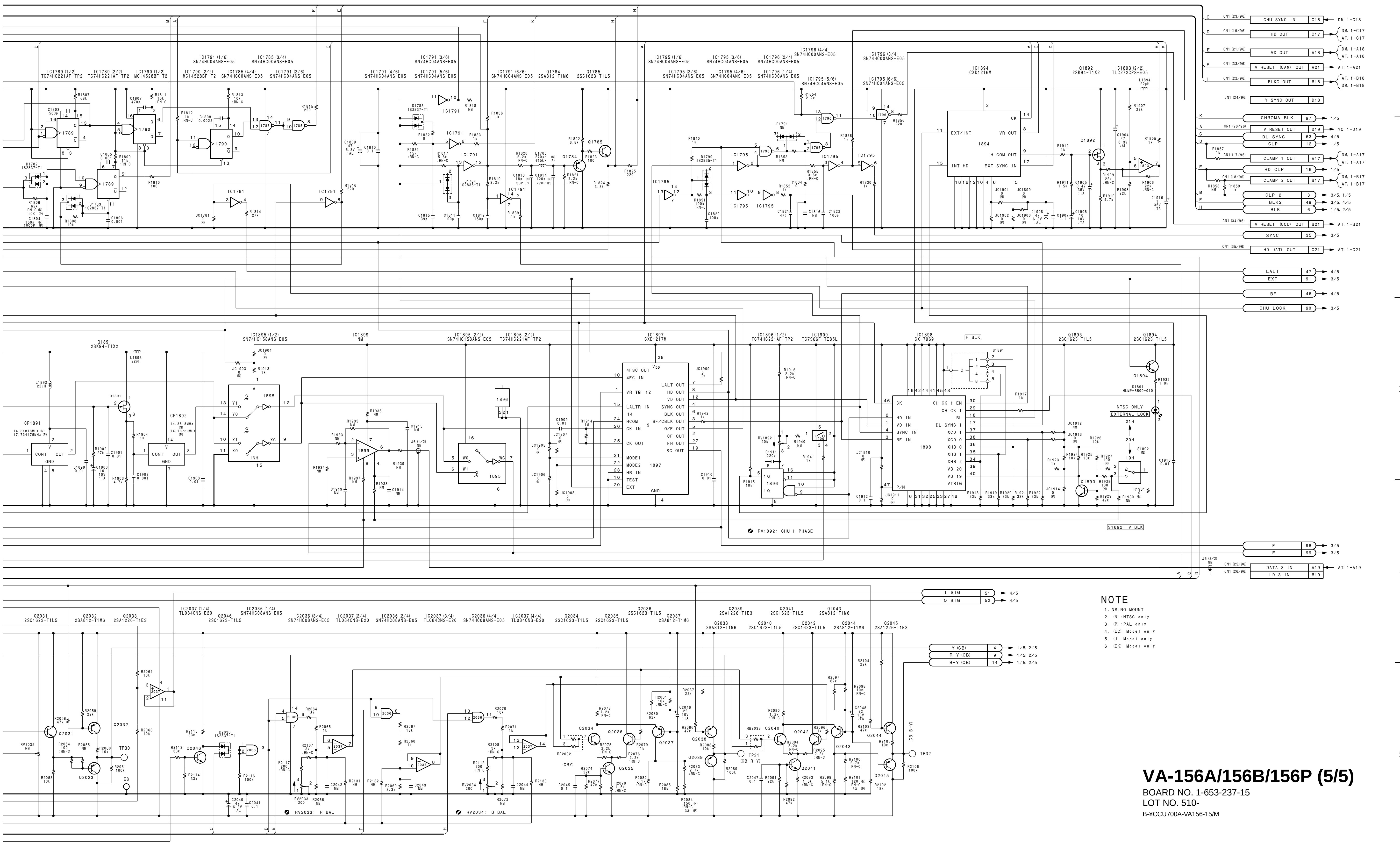
BOARD NO. 1-653-237-15
LOT NO. 510-
B-¥CCU700A-VA156-15/M

VA-156A/156B/156P (5/5)

CCU-700A (J)
CCU-700A (UC)
CCU-700AP (CE)


1
2
3
4
5
5V
GND
-5V
12.5V
3/5 101 SKIN GATE BLK
3/5 96 A
3/5 81 SYNC OUT (X)
82 SYNC OUT (G)
AT. 1-C19 C19 H CONT OUT (CAM)
CN1 (27/96)
MB. CN22-6 D20 REFERENCE (X) IN
C20 REFERENCE (G) IN
CN1 (32/96)
CN1 (31/96)
1/5 8 SC LOCK OFF
2/5 92 YC CONT
3/5 97 D
3/5 65 SKIN SIG CONT
3/5 11 BARS ON
3/5 66 CB GATE
4/5 98 CHARACTER (CB) (X)
4/5 99 CHARACTER (CB) (G)
IC1781 (1/2) SN74LS221NS-E20
IC1782 (2/2) TL062CPS-E05
Q1781 2SA812-T1M6
IC1781 (2/2) SN74LS221NS-E20
IC1782 (1/2) TL062CPS-E05
IC1783 (6/6) SN74HC04ANS-E05
IC1783 (1/6) SN74HC04ANS-E05
IC1783 (3/6) SN74HC04ANS-E05
IC1783 (5/6) SN74HC04ANS-E05
IC1792 (2/3) TC7W04FU (TE12R)
IC1792 (1/3) TC7W04FU (TE12R)
IC1783 (2/6) SN74HC04ANS-E05
IC1792 (3/3) TC7W04FU (TE12R)
Q1782 2SA812-T1M6
Q1783 2SC1623-T1L5
IC1783 (4/6) SN74HC04ANS-E05
IC1784 (2/2) TC74HC221AF-TP2
IC1784 (1/2) TC74HC221AF-TP2
IC1786 (4/4) SN74HC00ANS-E05
IC1785 (2/4) SN74HC00ANS-E05
IC1787 (2/4) SN74HC00ANS-E05
IC1786 (3/4) SN74HC00ANS-E05
IC1787 (4/4) SN74HC00ANS-E05
IC1788 (1/2) TC74HC221AF-TP2
IC1786 (2/4) SN74HC00ANS-E05
IC1788 (2/2) TC74HC221AF-TP2
IC1786 (1/4) SN74HC00ANS-E05
IC1787 (3/4) SN74HC00ANS-E05
IC1787 (1/4) SN74HC00ANS-E05
IC1785 (1/4) SN74HC00ANS-E05
CLAMP PULSE
BL
DL/SYNC
SYNC
THP1
(HD)
RV1781: H PHASE RANGE
RV1782: SYNC PHASE
RV1783: SYNC WIDTH
Q1701 2SC1623-T1L5
Q1702 2SC1623-T1L5
Q1703 2SC1623-T1L5
Q1704 2SA1226-T1E3
Q1705 2SC1623-T1L5
Q1706 2SC1623-T1L5
Q1707 2SC1623-T1L5
Q1708 2SA1226-T1E3
Q1709 2SA1226-T1E3
Q1710 2SC1623-T1L5
Q1711 2SA1226-T1E3
IC1701 μPC311G2-E2
Q1712 2SC2757-T1T34
Q1713 2SC2757-T1T34
Q1714 2SC1623-T1L5
IC1702 NM
TP26
TP27
TP28
E7
IC1891 CXD1216M
IC1892 (1/3) MC14053BF-T2
IC1892 (3/3) MC14053BF-T2
IC1893 (1/2) TLC272CPS-E05
IC1892 (2/3) MC14053BF-T2
INT HD
H COM OUT
EXT SC
EXT SYNC
SC COM
INT SC
EXT L ALT
CK
EXT/INT
RV1891: LOCAL SC
IC2031 (1/4) MC14011BF-T2
IC2031 (2/4) MC14011BF-T2
IC2032 MC14040BF-T2
IC2031 (3/4) MC14011BF-T2
IC2031 (4/4) MC14011BF-T2
IC2033 CX-7968A
IC2034 (1/4) TL084CNS-E20
IC2035 (1/4) SN74HC08ANS-E05
IC2035 (2/4) SN74HC08ANS-E05
IC2038 CLC505AJE-T
IC2034 (2/4) TL084CNS-E20
IC2035 (3/4) SN74HC08ANS-E05
IC2034 (3/4) TL084CNS-E20
IC2035 (4/4) SN74HC08ANS-E05
IC2034 (4/4) TL084CNS-E20
HD
CB
BLK
SKIN SIG
ON
OFF
CB SELECT
MODE
INV1 O
INV1 I
CB EN
CK IN
HD IN
BLK IN
N/P
EBU 95%
BAR SP
INV2 I
INV2 O
RV2031: CB LEVEL
RV2032: CB WHITE LEVEL
A
B
C
D
E
F
G
H

4-16


IC1789 (1/2) TC74HC221AF-TP2
IC1789 (2/2) TC74HC221AF-TP2
IC1790 (1/2) MC14528BF-T2
IC1790 (2/2) MC14528BF-T2
IC1791 SN74HC04ANS-E05
IC1785 SN74HC00ANS-E05
Q1784 2SA812-T1M6
Q1785 2SC1623-T1L5
IC1795 SN74HC04ANS-E05
IC1796 SN74HC00ANS-E05
IC1894 CXD1216M
EXT/INT
INT HD
VR OUT
H COM OUT
EXT SYNC IN
Q1892 2SK94-T1X2
IC1893 (2/2) TLC272CPS-E05
Q1891 2SK94-T1X2
CP1891
CP1892
IC1895 (1/2) SN74HC158ANS-E05
IC1899 NM
IC1895 (2/2) SN74HC158ANS-E05
IC1896 (2/2) TC74HC221AF-TP2
IC1897 CXD1217M
IC1896 (1/2) TC74HC221AF-TP2
IC1900 TC7S66F-TE85L
IC1898 CX-7969
H BLK
S1891
Q1893 2SC1623-T1L5
Q1894 2SC1623-T1L5
D1891 HLMP-6500-010
NTSC ONLY
EXTERNAL LOCK
S1892: V BLK
RV1892: CHU H PHASE
CHU SYNC IN C18 DM. 1-C18
HD OUT C17 DM. 1-C17 AT. 1-C17
VD OUT A18 DM. 1-A18 AT. 1-A18
V RESET (CAM) OUT A21 AT. 1-A21
BLKG OUT B18 AT. 1-B18 DM. 1-B18
Y SYNC OUT D18
CHROMA BLK 97 1/5
V RESET OUT D19 YC. 1-D19
DL SYNC 63 4/5
CLP 12 1/5
CLAMP 1 OUT A17 DM. 1-A17 AT. 1-A17
HD CLP 16 1/5
CLAMP 2 OUT B17 DM. 1-B17 AT. 1-B17
CLP 2 3 3/5, 1/5
BLK2 49 3/5, 4/5
BLK 6 1/5, 2/5
V RESET (CCU) OUT B21 AT. 1-B21
SYNC 35 3/5
HD (AT) OUT C21 AT. 1-C21
LALT 47 4/5
EXT 91 3/5
BF 46 4/5
CHU LOCK 90 3/5
F 98 3/5
E 99 3/5
DATA 3 IN A19 AT. 1-A19
LD 3 IN B19
I SIG 51 4/5
Q SIG 52 4/5
Y (CB) 4 1/5, 2/5
R-Y (CB) 9 1/5, 2/5
B-Y (CB) 14 1/5, 2/5
IC2037 TL084CNS-E20
IC2036 SN74HC08ANS-E05
Q2031 2SC1623-T1L5
Q2032 2SA812-T1M6
Q2033 2SA1226-T1E3
Q2046 2SC1623-T1L5
Q2034 2SC1623-T1L5
Q2035 2SC1623-T1L5
Q2036 2SC1623-T1L5
Q2037 2SA812-T1M6
Q2038 2SA812-T1M6
Q2039 2SA1226-T1E3
Q2040 2SC1623-T1L5
Q2041 2SC1623-T1L5
Q2042 2SC1623-T1L5
Q2043 2SA812-T1M6
Q2044 2SA812-T1M6
Q2045 2SA1226-T1E3
RV2033: R BAL
RV2034: B BAL
TP30
TP31 (CB R-Y)
TP32
E8
1
2
3
4
5
I
J
K
L
M
N
O
P

NOTE
1. NM:NO MOUNT
2. (N) :NTSC only
3. (P) :PAL only
4. (UC) Model only
5. (J) Model only
6. (EK) Model only

VA-156A/156B/156P (5/5)

BOARD NO. 1-653-237-15
LOT NO. 510-
B-¥CCU700A-VA156-15/M

CCU-700A (J)
CCU-700A (UC)
CCU-700AP (CE)

AT-88 BOARD

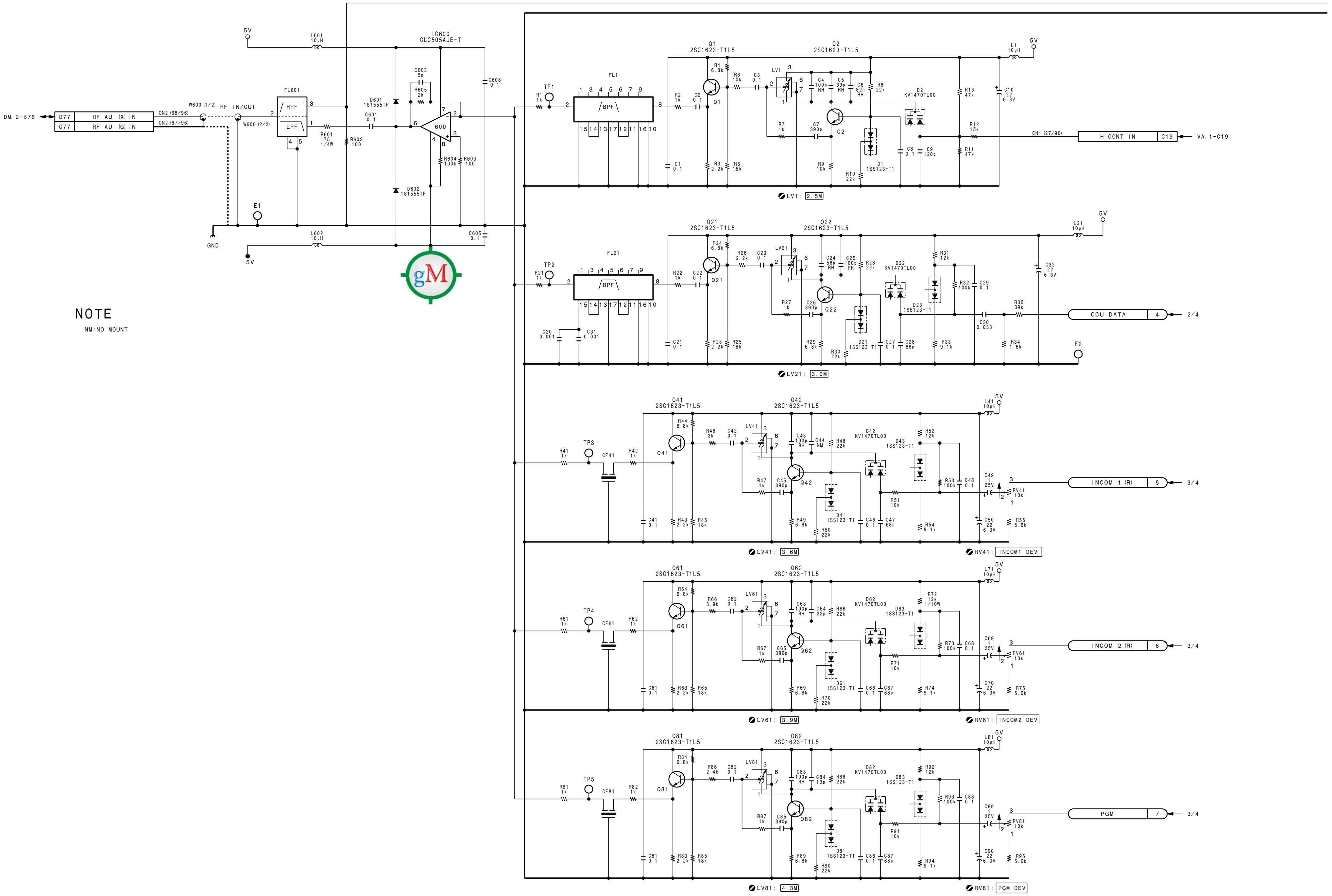
AT-88 (1-653-236-15)

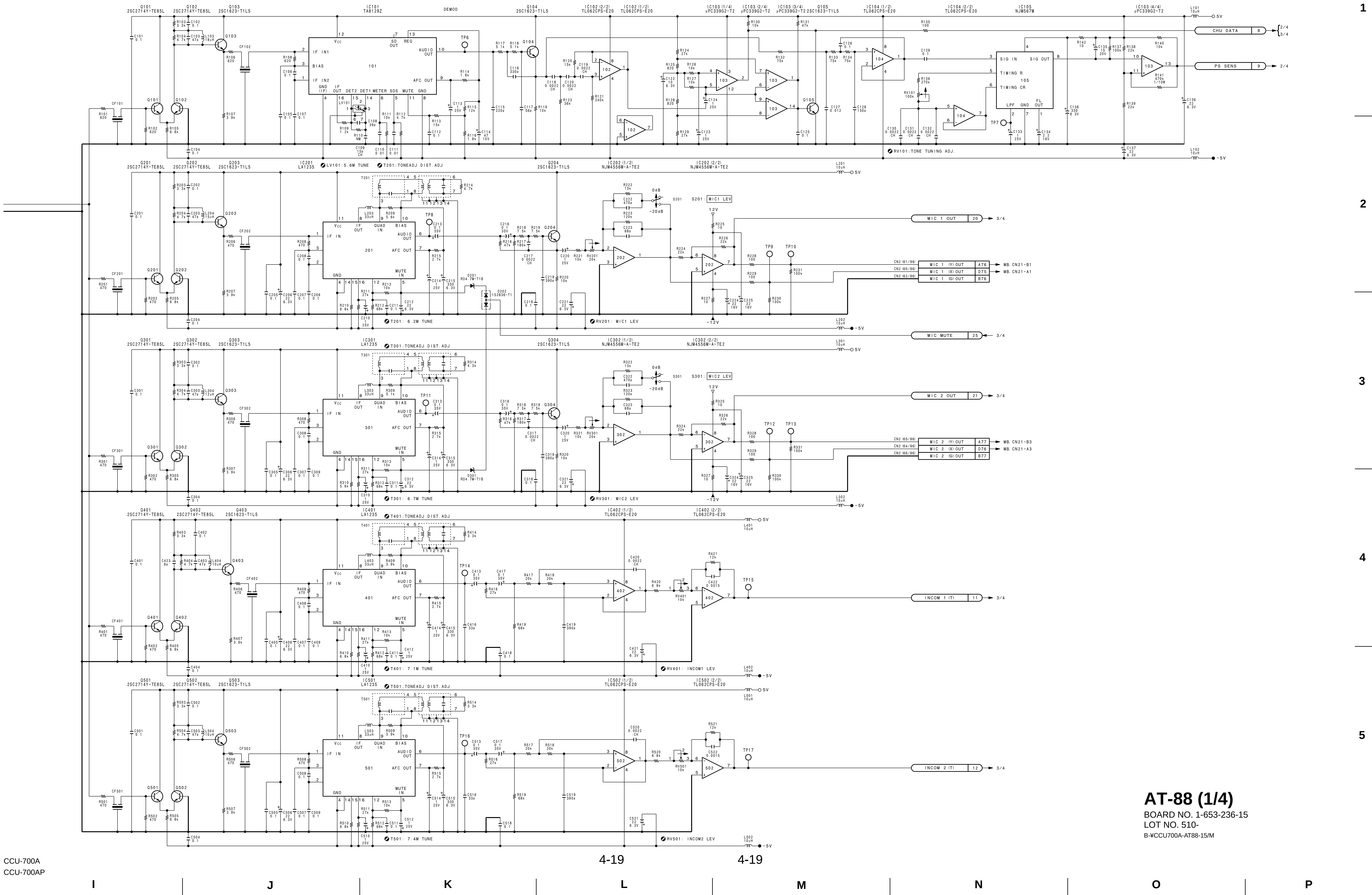
BT1001	H12
CF41	K5
CF61	J5
CF81	H5
CF101	L4
CF102	L4
CF201	L1
CF202	L1
CF301	L2
CF302	L2
CF401	L3
CF402	L3
CF501	L4
CF502	L4
CN1	A10
CN2	A6
CP1001	N10
D1	G7
D2	F7
D21	G6
D22	F6
D23	* F6
D41	K6
D42	K6
D43	K6
D61	J6
D62	J6
D63	J6
D81	J6
D82	H6
D83	J6
D201	* J1
D202	* K1
D301	* J2
D601	L6
D602	L6
D1001	H11
D1002	F12
D1003	F12
D1004	F12
D1005	F12
D2001	* D6
D2002	* D6
D2061	* D6
D2062	* E6
D2063	* E6
D2064	* E6
D2065	* E6
D2066	* D6
D2067	* D6
D2081	* F5
D2082	* F5
D2121	* D7
D2122	* D7
D2181	* N1
D2182	* N1
D2301	* E3
D2302	* F3
D2303	* F3
D2305	* F3
D2306	* E2
D2307	* F2
D2421	* M6
D2422	* M5
D2701	N10
D2702	N10
D2703	N10
D2704	N10
D2705	* D2
D2706	D3
D2707	* D3
D2708	* D1
D2709	* D2
D2751	* C12
D2791	* B6
D2792	* B6
D2793	* B7
D2821	* A6
D2822	* A6
D2823	* A7
D2830	* A7
D2831	* A7
D2833	* A8
D2840	* B8
D2841	* B8
E1	L6
E2	F6
E10	N1
E11	M8
E12	E1
E20	J9
E1000	C11
FL1	H6
FL21	H6
FL601	K6
F1	A2
F2	B3
F3	B4
F4	B2
F5	A12
F6	A12
IC101	K4
IC102	H5
IC103	G5
IC104	H5
IC105	G5
IC201	K1
IC202	G1
IC301	K2
IC302	G2
IC401	K3
IC402	G3
IC501	K4
IC502	G4
IC600	K7
IC1001	G11
IC1002	J10
IC1003	H10
IC1004	K12
IC1005	J12
IC1006	H12
IC1007	K12
IC1008	J12
IC1009	D10
IC1010	H9
IC1011	E10
IC1012	F10
IC1013	F10
IC1017	C10
IC1018	C11
IC1019	K11
IC1020	J11
IC1022	J11
IC1024	E9
IC1025	F9
IC1026	F9
IC1027	C11
IC1028	G11
IC1034	E11
IC1035	D12
IC1036	F11
IC1037	F11
IC1038	F11
IC1039	J9
IC1043	M10
IC1044	D9
IC1045	E12
IC1046	F12
IC1047	J9
IC1048	J9
IC1109	L11
IC1110	N11
IC1111	G11
IC1112	L10
IC1113	L10
IC1114	N10
IC1200	G9
IC1201	G9
IC1202	G9
IC1203	G9
IC2001	D6
IC2002	E6
IC2003	E6
IC2004	D6
IC2005	D6
IC2006	C6
IC2061	D6
IC2062	D6
IC2063	D6
IC2064	E6
IC2065	E6
IC2066	E5
IC2068	E5
IC2069	D6
IC2081	F5
IC2082	F3
IC2121	D7
IC2122	E7
IC2141	E7
IC2142	D7
IC2143	D7
IC2181	N1
IC2182	N2
IC2211	M2
IC2212	M3
IC2241	M2
IC2242	M3
IC2271	* N4
IC2301	E3
IC2302	F3
IC2303	E1
IC2342	F4
IC2343	F4
IC2381	* E4
IC2382	* D4
IC2421	M5
IC2422	M5
IC2451	M6
IC2452	M6
IC2491	M6
IC2492	M6
IC2521	* N6
IC2701	D2
IC2702	D1
IC2751	C12
IC2810	B8
IC2830	A7
IC2840	B8
IS1004	K12
LV1	G6
LV21	G6
LV41	K5
LV61	J5
LV81	H5
LV101	J5
L1	F6
L21	F6
L41	K7
L71	J7
L81	H7
L101	F5
L102	G4
L103	L4
L201	F1
L202	F1
L203	J1
L204	L1
L301	F2
L302	F2
L303	J2
L304	L2
L401	F3
L402	F3
L403	J3
L404	L3
L501	F4
L502	F4
L503	J4
L504	L4
L601	K7
L602	L7
L1001	C11
L1002	N11
L1003	K9
L1102	F10
L1103	E9
L1104	E10
L1105	E12
L1106	D12
L1107	E12
L1108	H9
L1109	L10
L1110	N11
L1111	K10
L1112	G10
L1113	E10
L1114	F11
L1115	K12
L1116	K12
L1117	M12
L1118	J11
L1119	K9
L1120	D11
L1121	L10
L1122	L10
L1123	N10
L1124	N10
L1125	E9
L1126	B10
L1127	C10
L1128	B9
L1129	C9
L1130	M10
L1131	L9
L1132	N9
L2001	* C6
L2002	* C7
L2003	* C6
L2081	* C6
L2082	* C6
L2121	* C7
L2122	* C8
L2181	* M1
L2182	* M1
L2301	E2
L2302	* E2
L2421	* L7
L2422	* L6
L2701	A1
L2702	B2
L2703	B3
L2704	B1
L2751	B11
L2792	B8
L2793	A11
L2840	B8
L2841	B8
PH1049	B10
PH1050	C10
PH1051	B10
PH1052	C10
PH2791	B7
PH2821	A7
Q1	H7
Q2	G7
Q21	G6
Q22	G6
Q41	K6
Q42	K6
Q61	J6
Q62	J6
Q81	H6
Q82	H6
Q101	L5
Q102	L5
Q103	L5
Q104	H5
Q105	F5
Q201	L1
Q202	L1
Q203	L1
Q204	* H1
Q301	L2
Q302	L2
Q303	L2
Q304	* H2
Q401	L3
Q402	L3
Q403	L3
Q501	L4
Q502	L4
Q503	L4
Q1001	L9
Q1002	N9
Q1003	K9
Q1004	* K9
Q1010	* B9
Q1012	* A9
Q1103	L9
Q1104	M9
Q2211	* M3
Q2212	* M4
Q2213	* N3
Q2241	* M3
Q2242	* M4
Q2243	* M3
Q2271	* N3
Q2272	* N4
Q2273	* N3
Q2421	* M7
Q2422	* M7
Q2423	* M7
Q2424	* M6
Q2425	* M7
Q2426	* M7
Q2521	* N5
Q2522	* N5
Q2523	* N5
Q2701	D2
Q2702	D3
Q2703	D1
Q2704	D2
Q2751	B12
Q2791	* B7
Q2821	* A7
Q2830	* A8
Q2831	* A8
Q2840	* B8
Q2841	* B8
Q2842	* B8
RB1000	D11
RB1001	G12
RB1002	M11
RB1003	N10
RB1004	L11
RB1005	L11
RB1006	K11
RB1007	D12
RB1008	E12
RB1009	D12
RB1010	C10
RB1011	C10
RB1012	C9
RB1013	C10
RB1014	D10
RB1015	C9
RB1016	B10
RB1017	B10
RB1018	D10
RB1019	D10
RB1020	D9
RB1021	E11
RB1022	D10
RB1023	C9
RB1024	C9
RB1025	C9
RB1026	K11
RB1027	J11
RB1028	C11
RB1029	C11
RB1030	J9
RB1031	J9
RB1032	D12
RB1033	D12
RB1034	E9
RB1035	D9
RB1036	E9
RV41	K7
RV61	J7
RV81	H7
RV101	H4
RV201	G1
RV301	G2
RV401	G3
RV501	G4
RV2211	N4
RV2212	N4
RV2241	N4
RV2301	F2
RV2310	D5
RV2341	N6
RV2342	N6
RV2451	N5
RV2452	N5
RV2491	N5
S201	G1
S301	G2
S1001	F12
S1002	F12
S1003	N9
S1004	N9
S1005	N8
S1006	B10
S1007	B10
S2061	E6
S2062	N7
S2081	D5
S2082	F5
S2241	N5
S2301	N8
S2341	E3
S2491	M8
S2791	B6
S2792	B7
S2821	A6
S2822	A7
TP1	G7
TP2	G6
TP3	J5
TP4	J5
TP5	H5
TP6	J5
TP7	H5
TP8	J1
TP9	G1
TP10	F1
TP11	J2
TP12	G2
TP13	F2
TP14	J3
TP15	G3
TP16	J4
TP17	G4
TP21	J9
TP22	F9
TP23	E10
TP24	K10
TP40	N2
TP42	L7
TP43	M1
TP44	L7
TP45	L7
TP46	L7
TP47	E3
TP48	E3
TP1001	D11
T201	H1
T301	H2
T401	H3
T501	H4
T2830	A8
X1002	F11

*:B SIDE

NOTE

NM: NO MOUNT

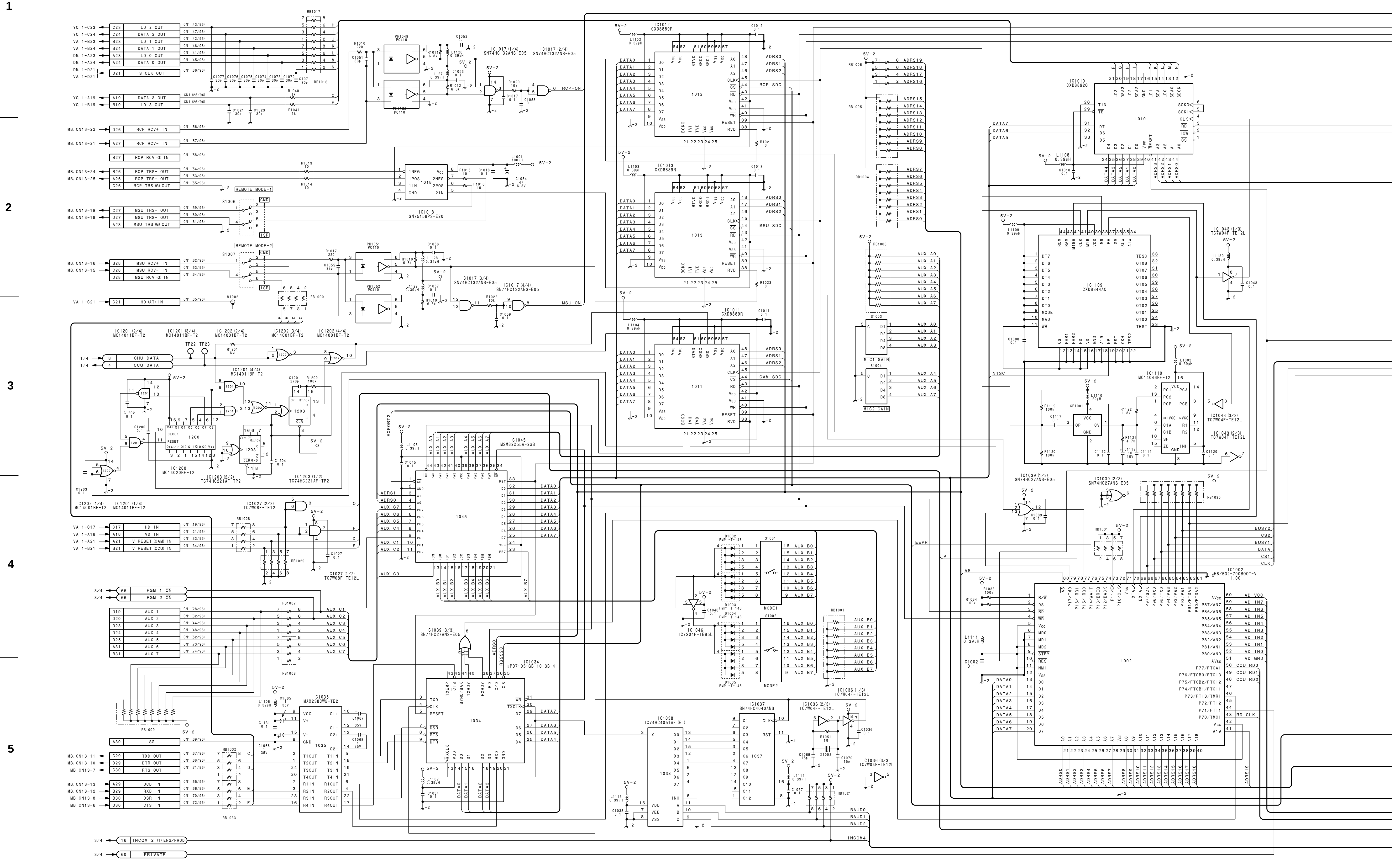

DM. 2-B76
D77
C77
RF AU (X) IN
RF AU (G) IN
CN2 (68/96)
CN2 (67/96)
W600 (1/2)
RF IN/OUT
W600 (2/2)
GND
-5V
E1
5V
L601 10μH
L602 10μH
FL601
HPF
LPF
IC600 CLC505AJE-T
D601 1SS355TP
D602 1SS355TP
TP1
FL1
BPF
Q1 2SC1623-T1L5
Q2 2SC1623-T1L5
LV1
D1 1SS123-T1
D2 KV1470TL00
L1 10μH
5V
CN1 (27/96)
H CONT IN
C19
VA. 1-C19
LV1 : 2.5M
TP2
FL21
Q21 2SC1623-T1L5
Q22 2SC1623-T1L5
LV21
L21 10μH
CCU DATA
4
2/4
E2
LV21 : 3.0M
TP3
CF41
Q41 2SC1623-T1L5
Q42 2SC1623-T1L5
LV41
L41 10μH
INCOM 1 (R)
5
3/4
LV41 : 3.6M
RV41 : INCOM1 DEV
TP4
CF61
Q61 2SC1623-T1L5
Q62 2SC1623-T1L5
LV61
L71 10μH
INCOM 2 (R)
6
3/4
LV61 : 3.9M
RV61 : INCOM2 DEV
TP5
CF81
Q81 2SC1623-T1L5
Q82 2SC1623-T1L5
LV81
L81 10μH
PGM
7
3/4
LV81 : 4.3M
RV81 : PGM DEV

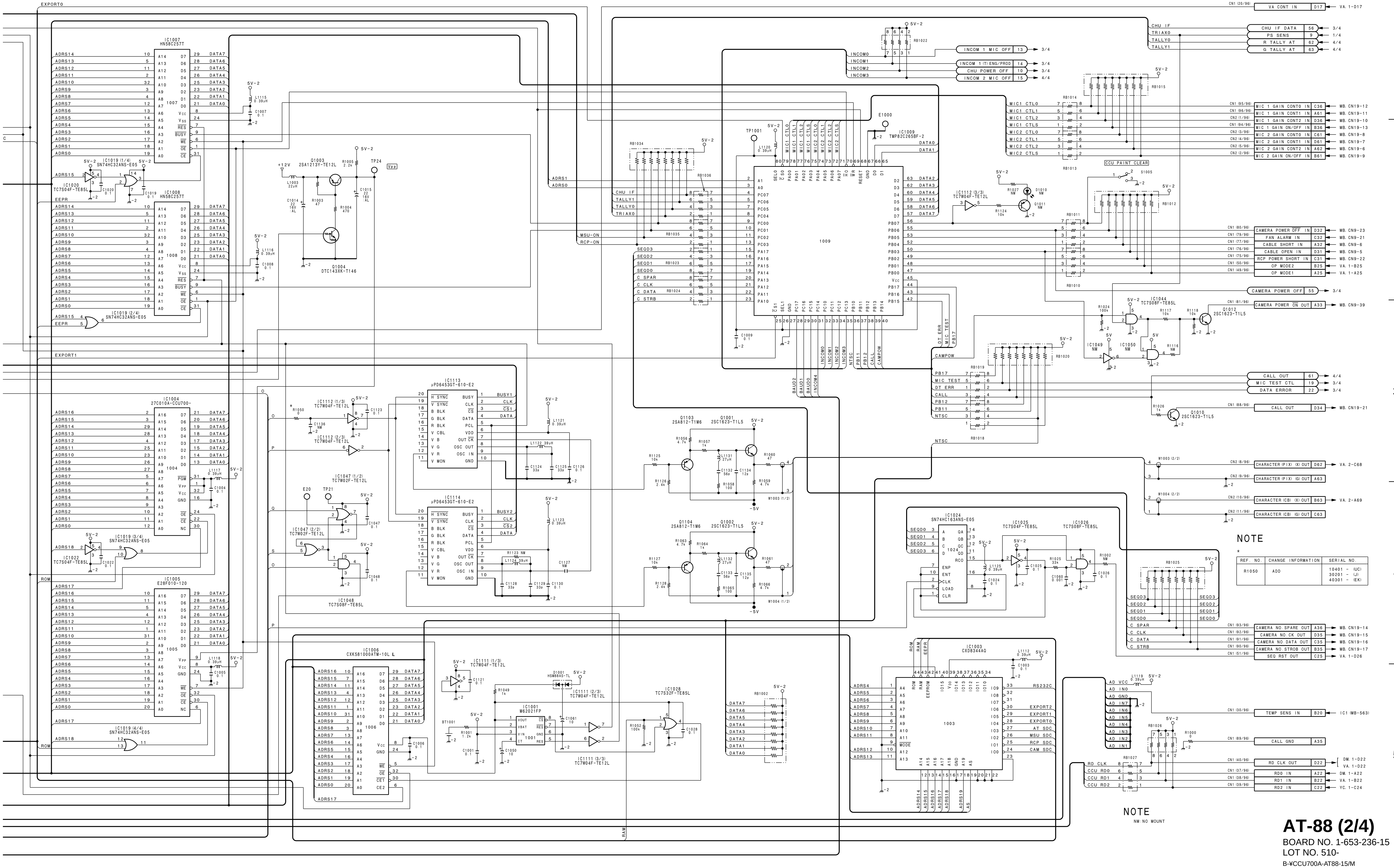

1
2
3
4
5
I
J
K
L
M
N
O
P
Q101 2SC2714Y-TE85L
Q102 2SC2714Y-TE85L
Q103 2SC1623-T1L5
IC101 TA8129Z
DEMOD
Q104 2SC1623-T1L5
IC102 (2/2) TL062CPS-E20
IC102 (1/2) TL062CPS-E20
IC103 (1/4) μPC339G2-T2
IC103 (2/4) μPC339G2-T2
IC103 (3/4) μPC339G2-T2
Q105 2SC1623-T1L5
IC104 (1/2) TL062CPS-E20
IC104 (2/2) TL062CPS-E20
IC105 NJM567M
IC103 (4/4) μPC339G2-T2
CHU DATA
8
2/4
3/4
PS SENS
9
2/4
5V
-5V
LV101: 5.6M TUNE
T201: TONEADJ DIST.ADJ
RV101: TONE TUNING ADJ.
Q201 2SC2714Y-TE85L
Q202 2SC2714Y-TE85L
Q203 2SC1623-T1L5
IC201 LA1235
Q204 2SC1623-T1L5
IC202 (1/2) NJM4556M-A-TE2
IC202 (2/2) NJM4556M-A-TE2
S201: MIC1 LEV
0dB
-20dB
MIC 1 OUT
20
3/4
MIC 1 (Y) OUT A76 MB.CN21-B1
MIC 1 (X) OUT D75 MB.CN21-A1
MIC 1 (G) OUT B76
T201: 6.2M TUNE
RV201: MIC1 LEV
MIC MUTE
25
3/4
Q301 2SC2714Y-TE85L
Q302 2SC2714Y-TE85L
Q303 2SC1623-T1L5
IC301 LA1235
T301: TONEADJ DIST.ADJ
Q304 2SC1623-T1L5
IC302 (1/2) NJM4556M-A-TE2
IC302 (2/2) NJM4556M-A-TE2
S301: MIC2 LEV
MIC 2 OUT
21
3/4
MIC 2 (Y) OUT A77 MB.CN21-B3
MIC 2 (X) OUT D76 MB.CN21-A3
MIC 2 (G) OUT B77
T301: 6.7M TUNE
RV301: MIC2 LEV
Q401 2SC2714Y-TE85L
Q402 2SC2714Y-TE85L
Q403 2SC1623-T1L5
IC401 LA1235
T401: TONEADJ DIST.ADJ
IC402 (1/2) TL062CPS-E20
IC402 (2/2) TL062CPS-E20
INCOM 1 (T)
11
3/4
T401: 7.1M TUNE
RV401: INCOM1 LEV
Q501 2SC2714Y-TE85L
Q502 2SC2714Y-TE85L
Q503 2SC1623-T1L5
IC501 LA1235
T501: TONEADJ DIST.ADJ
IC502 (1/2) TL062CPS-E20
IC502 (2/2) TL062CPS-E20
INCOM 2 (T)
12
3/4
T501: 7.4M TUNE
RV501: INCOM2 LEV

AT-88 (1/4)

BOARD NO. 1-653-236-15
LOT NO. 510-
B-¥CCU700A-AT88-15/M

CCU-700A (J)
CCU-700A (UC)
CCU-700AP (CE)


IC1012 CXD8889R
IC1013 CXD8889R
IC1011 CXD8889R
IC1010 CXD8892Q
IC1109 CXD8344AQ
IC1110 MC14046BF-T2
IC1018 SN75158PS-E20
IC1017 SN74HC132ANS-E05
IC1045 MSM82C55A-2GS
IC1034 μPD71051GB-10-3B 4
IC1035 MAX238CWG-TE2
IC1038 TC74HC4051AF (EL)
IC1037 SN74HC4040ANS
IC1036 TC7W04F-TE12L
IC1046 TC7S04F-TE85L
IC1039 SN74HC27ANS-E05
IC1043 TC7W04F-TE12L
IC1002 H8/532-7008OOT-V 1.00
IC1200 MC14020BF-T2
IC1201 MC14011BF-T2
IC1202 MC14001BF-T2
IC1203 TC74HC221AF-TP2
IC1027 TC7W08F-TE12L
PH1049 PC410
PH1050 PC410
PH1051 PC410
PH1052 PC410
S1006 REMOTE MODE-1
S1007 REMOTE MODE-2
S1001 MODE1
S1002 MODE2
S1003 MIC1 GAIN
S1004 MIC2 GAIN
RCP-ON
MSU-ON
INCOM 2 (T) ENG/PROD
PRIVATE
CHU DATA
CCU DATA
PGM 1 ON
PGM 2 ON
1
2
3
4
5
A
B
C
D
E
F
G
H


1
2
3
4
5
EXPORT0
EXPORT1
IC1007 HN58C257T
IC1008 HN58C257T
IC1004 27C010A-CCU700-
IC1005 E28F010-120
IC1019 (1/4) SN74HC32ANS-E05
IC1019 (2/4) SN74HC32ANS-E05
IC1019 (3/4) SN74HC32ANS-E05
IC1019 (4/4) SN74HC32ANS-E05
IC1020 TC7S04F-TE85L
IC1022 TC7S04F-TE85L
Q1003 2SA1213Y-TE12L
Q1004 DTC143XK-T146
TP24
IC1112 (1/3) TC7W04F-TE12L
IC1112 (2/3) TC7W04F-TE12L
IC1112 (3/3) TC7W04F-TE12L
IC1047 (1/2) TC7W02F-TE12L
IC1047 (2/2) TC7W02F-TE12L
IC1048 TC7S08F-TE85L
IC1113 μPD6453GT-610-E2
IC1114 μPD6453GT-610-E2
IC1006 CXK581000ATM-10LL
IC1111 (1/3) TC7W04F-TE12L
IC1111 (2/3) TC7W04F-TE12L
IC1111 (3/3) TC7W04F-TE12L
IC1001 M62021FP
D1001 HSM88AS-TL
BT1001
IC1028 TC7S32F-TE85L
Q1103 2SA812-T1M6
Q1001 2SC1623-T1L5
Q1104 2SA812-T1M6
Q1002 2SC1623-T1L5
W1003 (1/2)
W1004 (1/2)
TP1001
E1000
IC1009 TMP82C265BF-2
RB1034 RB1035 RB1036 RB1023 RB1024 RB1022 RB1002
RB1014 RB1013 RB1015 RB1011 RB1010 RB1012 RB1020 RB1019 RB1018 RB1025 RB1026 RB1027
CCU PAINT CLEAR
S1005
D1010 NM
Q1011 NM
IC1044 TC7S08F-TE85L
Q1012 2SC1623-T1L5
IC1049 NM
IC1050 NM
Q1010 2SC1623-T1L5
IC1024 SN74HC163ANS-E05
IC1025 TC7S04F-TE85L
IC1026 TC7S08F-TE85L
IC1003 CXD8344AQ
W1003 (2/2)
W1004 (2/2)
INCOM 1 MIC OFF 13 → 3/4
INCOM 1 (T) ENG/PROD 14 → 3/4
CHU POWER OFF 10 → 3/4
INCOM 2 MIC OFF 15 → 4/4
VA CONT IN D17 → VA. 1-D17
CHU IF DATA 56 3/4
PS SENS 9 1/4
R TALLY AT 62 4/4
G TALLY AT 63 4/4
MIC 1 GAIN CONT0 IN C36 MB. CN19-12
MIC 1 GAIN CONT1 IN A61 MB. CN19-11
MIC 1 GAIN CONT2 IN D36 MB. CN19-10
MIC 1 GAIN ON/OFF IN B36 MB. CN19-13
MIC 2 GAIN CONT0 IN C61 MB. CN19-8
MIC 2 GAIN CONT1 IN D61 MB. CN19-7
MIC 2 GAIN CONT2 IN A62 MB. CN19-6
MIC 2 GAIN ON/OFF IN B61 MB. CN19-9
CAMERA POWER OFF IN D32 MB. CN9-23
FAN ALARM IN C32 MB. CN9-21
CABLE SHORT IN A32 MB. CN9-6
CABLE OPEN IN D31 MB. CN9-5
RCP POWER SHORT IN C31 MB. CN9-22
OP MODE2 B25 VA. 1-B25
OP MODE1 A25 VA. 1-A25
CAMERA POWER OFF 55 3/4
CAMERA POWER ON OUT A33 MB. CN9-39
CALL OUT 61 4/4
MIC TEST CTL 19 3/4
DATA ERROR 22 3/4
CALL OUT D34 MB. CN19-21
CHARACTER (PIX) (X) OUT D62 VA. 2-C68
CHARACTER (PIX) (G) OUT A63
CHARACTER (CB) (X) OUT B63 VA. 2-A69
CHARACTER (CB) (G) OUT C63
CAMERA NO.SPARE OUT A36 MB. CN19-14
CAMERA NO.CK OUT D35 MB. CN19-15
CAMERA NO.DATA OUT C35 MB. CN19-16
CAMERA NO.STROB OUT B35 MB. CN19-17
SEQ RST OUT C25 VA. 1-D26
TEMP SENS IN B20 IC1 (MB-563)
CALL GND A35
RD CLK OUT D22 DM. 1-D22 VA. 1-D22
RD0 IN A22 DM. 1-A22
RD1 IN B22 VA. 1-B22
RD2 IN C22 YC. 1-C24

NOTE

*

REF. NO.	CHANGE INFORMATION	SERIAL NO.
R1050	ADD	10401 - (UC) 30201 - (J) 40301 - (EK)

NOTE
NM: NO MOUNT

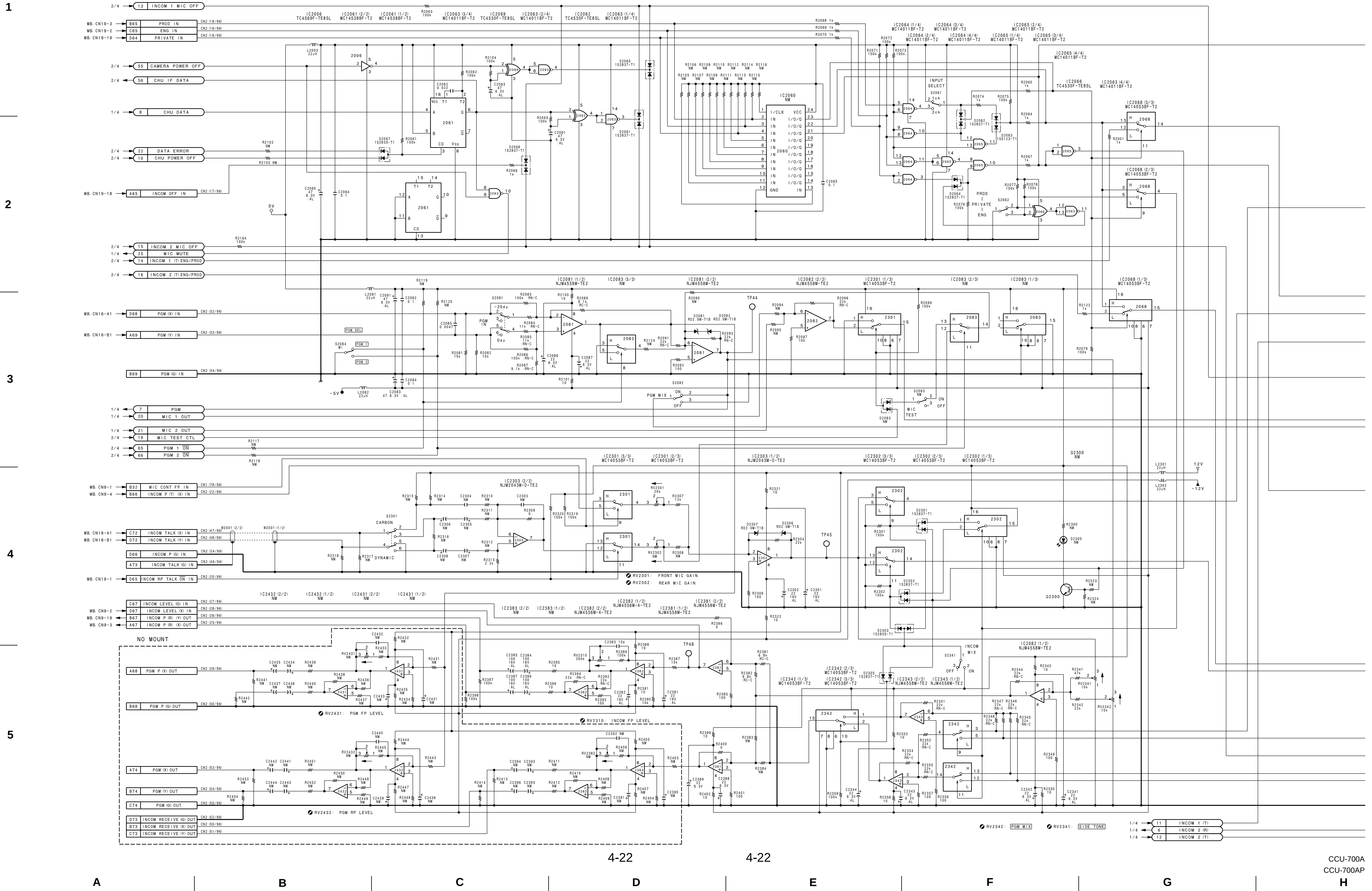
AT-88 (2/4)

BOARD NO. 1-653-236-15
LOT NO. 510-
B-¥CCU700A-AT88-15/M

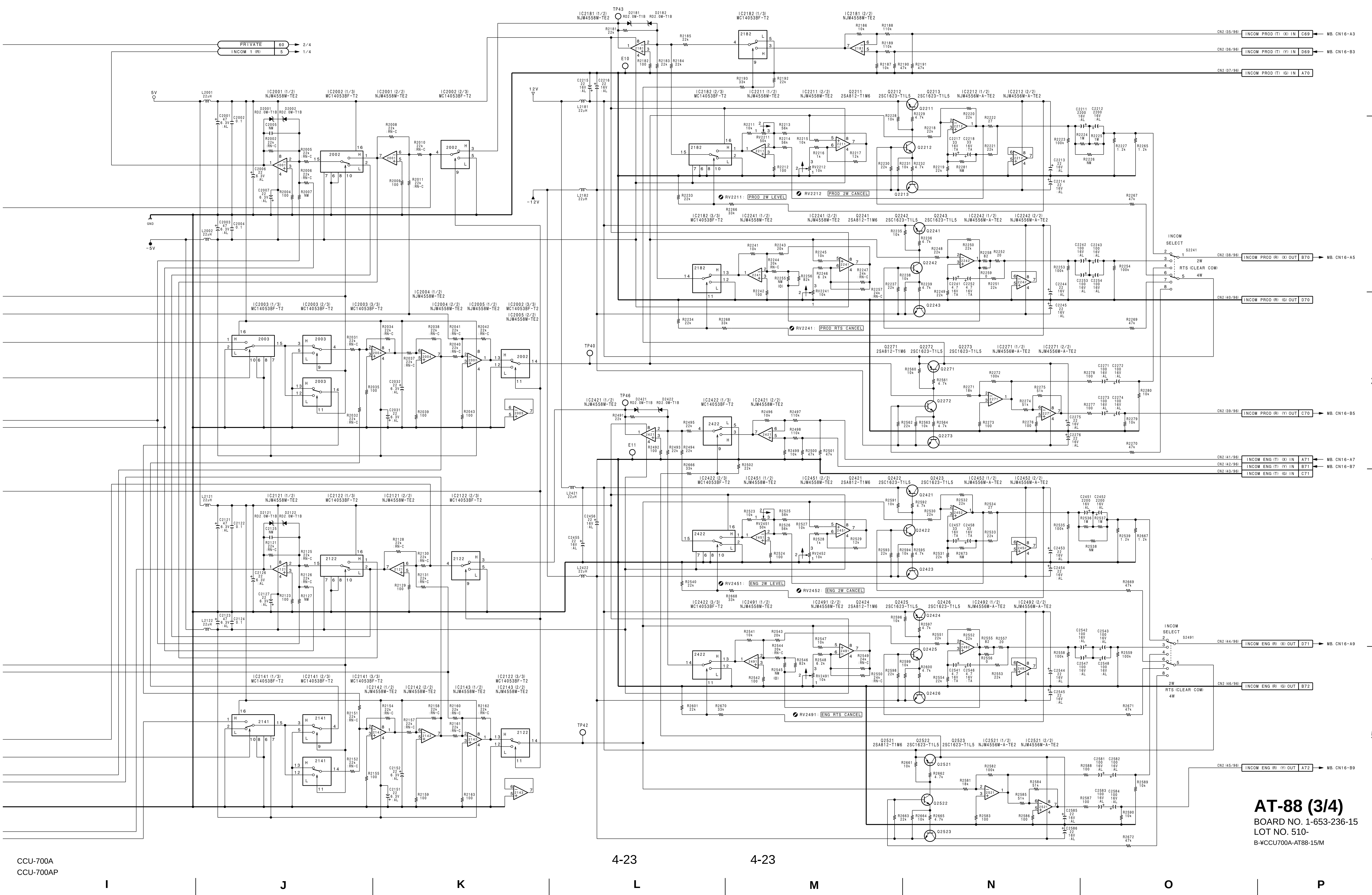
CCU-700A
CCU-700AP

I J K L M N O P

CCU-700A (J)
CCU-700A (UC)
CCU-700AP (CE)


1
2
3
4
5
INCOM 1 MIC OFF
PROD IN
ENG IN
PRIVATE IN
CAMERA POWER OFF
CHU IF DATA
CHU DATA
DATA ERROR
CHU POWER OFF
INCOM OFF IN
INCOM 2 MIC OFF
MIC MUTE
INCOM 1 (T) ENG/PROD
INCOM 2 (T) ENG/PROD
PGM (X) IN
PGM (Y) IN
PGM (G) IN
PGM
MIC 1 OUT
MIC 2 OUT
MIC TEST CTL
PGM 1 ON
PGM 2 ON
MIC CONT FP IN
INCOM P (T) (X) IN
INCOM TALK (X) IN
INCOM TALK (Y) IN
INCOM P (G) IN
INCOM TALK (G) IN
INCOM RP TALK ON IN
INCOM LEVEL (G) IN
INCOM LEVEL (X) IN
INCOM P (R) (Y) OUT
INCOM P (R) (X) OUT
NO MOUNT
PGM P (X) OUT
PGM P (G) OUT
PGM (X) OUT
PGM (Y) OUT
PGM (G) OUT
INCOM RECEIVE (G) OUT
INCOM RECEIVE (X) OUT
INCOM RECEIVE (Y) OUT
INCOM 1 (T)
INCOM 2 (R)
INCOM 2 (T)
IC2060 NM
IC2061 MC14538BF-T2
IC2063 MC14011BF-T2
IC2064 MC14011BF-T2
IC2065 MC14011BF-T2
IC2066 TC4S30F-TE85L
IC2068 MC14053BF-T2
IC2081 NJM4558M-TE2
IC2082 NJM4558M-TE2
IC2301 MC14053BF-T2
IC2302 MC14053BF-T2
IC2303 NJM2043M-D-TE2
IC2342 MC14053BF-T2
IC2343 NJM4558M-TE2
IC2381 NJM4558M-TE2
IC2382 NJM4556M-A-TE2
INPUT SELECT
PROD / PRIVATE / ENG
PGM MIX
MIC TEST
CARBON
DYNAMIC
INCOM MIX
RV2301: FRONT MIC GAIN
RV2302: REAR MIC GAIN
RV2431: PGM FP LEVEL
RV2432: PGM RP LEVEL
RV2310: INCOM FP LEVEL
RV2342: PGM MIX
RV2341: SIDE TONE
Q2300
TP44
TP45
TP48
12V
-12V
5V
-5V
A
B
C
D
E
F
G
H

http://getMANUAL.com


PRIVATE 60 2/4
INCOM 1 (R) 5 1/4
5V
GND
-5V
12V
-12V
TP40
TP42
TP43
TP46
E10
E11
RV2211: PROD 2W LEVEL
RV2212 PROD 2W CANCEL
RV2241: PROD RTS CANCEL
RV2451: ENG 2W LEVEL
RV2452: ENG 2W CANCEL
RV2491: ENG RTS CANCEL
INCOM SELECT
S2241
S2491
2W
RTS (CLEAR COM)
4W
CN2 (35/96) INCOM PROD (T) (X) IN C69 MB. CN16-A3
CN2 (36/96) INCOM PROD (T) (Y) IN D69 MB. CN16-B3
CN2 (37/96) INCOM PROD (T) (G) IN A70
CN2 (38/96) INCOM PROD (R) (X) OUT B70 MB. CN16-A5
CN2 (40/96) INCOM PROD (R) (G) OUT D70
CN2 (39/96) INCOM PROD (R) (Y) OUT C70 MB. CN16-B5
CN2 (41/96) INCOM ENG (T) (X) IN A71 MB. CN16-A7
CN2 (42/96) INCOM ENG (T) (Y) IN B71 MB. CN16-B7
CN2 (43/96) INCOM ENG (T) (G) IN C71
CN2 (44/96) INCOM ENG (R) (X) OUT D71 MB. CN16-A9
CN2 (46/96) INCOM ENG (R) (G) OUT B72
CN2 (45/96) INCOM ENG (R) (Y) OUT A72 MB. CN16-B9
1
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3
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I
J
K
L
M
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O
P

AT-88 (3/4)

BOARD NO. 1-653-236-15
LOT NO. 510-
B-¥CCU700A-AT88-15/M

CCU-700A
CCU-700AP

CCU-700A (J)
CCU-700A (UC)
CCU-700AP (CE)

1

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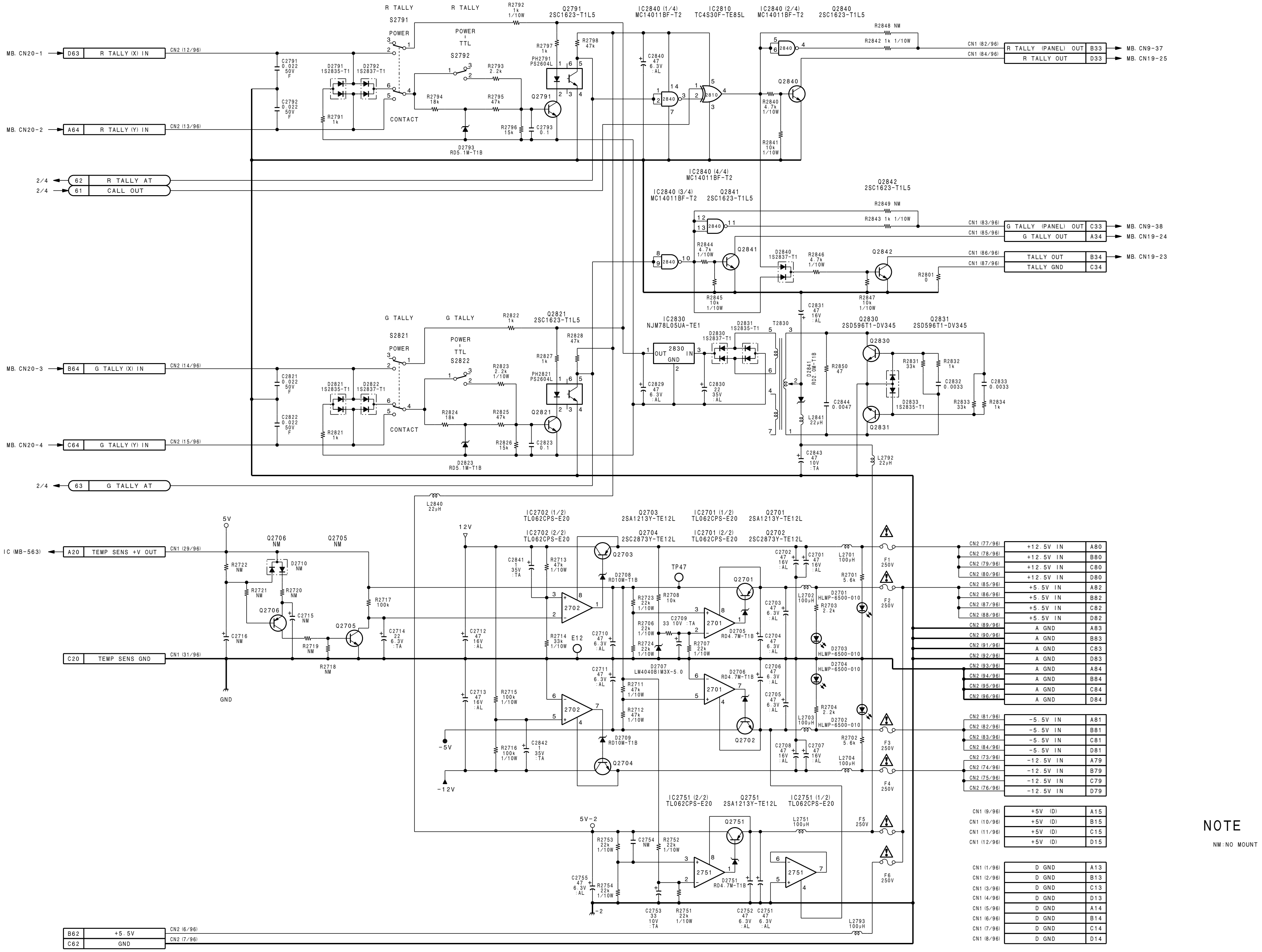

MB. CN20-1
D63 R TALLY (X) IN
MB. CN20-2
A64 R TALLY (Y) IN
2/4 62 R TALLY AT
2/4 61 CALL OUT
MB. CN20-3
B64 G TALLY (X) IN
MB. CN20-4
C64 G TALLY (Y) IN
2/4 63 G TALLY AT
IC (MB-563)
A20 TEMP SENS +V OUT
C20 TEMP SENS GND
B62 +5.5V
C62 GND
R TALLY
S2791
POWER
TTL
S2792
CONTACT
G TALLY
S2821
S2822
Q2791 2SC1623-T1L5
Q2821 2SC1623-T1L5
PH2791 PS2604L
PH2821 PS2604L
D2793 RD5.1M-T1B
D2823 RD5.1M-T1B
IC2840 (1/4) MC14011BF-T2
IC2810 TC4S30F-TE85L
IC2840 (2/4) MC14011BF-T2
Q2840 2SC1623-T1L5
IC2840 (4/4) MC14011BF-T2
IC2840 (3/4) MC14011BF-T2
Q2841 2SC1623-T1L5
Q2842 2SC1623-T1L5
IC2830 NJM78L05UA-TE1
T2830
Q2830 2SD596T1-DV345
Q2831 2SD596T1-DV345
R TALLY (PANEL) OUT B33 MB. CN9-37
R TALLY OUT D33 MB. CN19-25
G TALLY (PANEL) OUT C33 MB. CN9-38
G TALLY OUT A34 MB. CN19-24
TALLY OUT B34 MB. CN19-23
TALLY GND C34
IC2702 (1/2) TL062CPS-E20
IC2702 (2/2) TL062CPS-E20
Q2703 2SA1213Y-TE12L
Q2704 2SC2873Y-TE12L
IC2701 (1/2) TL062CPS-E20
IC2701 (2/2) TL062CPS-E20
Q2701 2SA1213Y-TE12L
Q2702 2SC2873Y-TE12L
Q2706 NM
Q2705 NM
5V
12V
-5V
-12V
GND
TP47
E12
D2707 LM4040DIM3X-5.0
IC2751 (2/2) TL062CPS-E20
Q2751 2SA1213Y-TE12L
IC2751 (1/2) TL062CPS-E20
5V-2
F1 250V
F2 250V
F3 250V
F4 250V
F5 250V
F6 250V
+12.5V IN A80
+12.5V IN B80
+12.5V IN C80
+12.5V IN D80
+5.5V IN A82
+5.5V IN B82
+5.5V IN C82
+5.5V IN D82
A GND A83
A GND B83
A GND C83
A GND D83
A GND A84
A GND B84
A GND C84
A GND D84
-5.5V IN A81
-5.5V IN B81
-5.5V IN C81
-5.5V IN D81
-12.5V IN A79
-12.5V IN B79
-12.5V IN C79
-12.5V IN D79
+5V (D) A15
+5V (D) B15
+5V (D) C15
+5V (D) D15
D GND A13
D GND B13
D GND C13
D GND D13
D GND A14
D GND B14
D GND C14
D GND D14

NOTE
NM:NO MOUNT

AT-88 (4/4)

BOARD NO. 1-653-236-15
LOT NO. 510-
B-¥CCU700A-AT88-15/M

A B C D E F G H

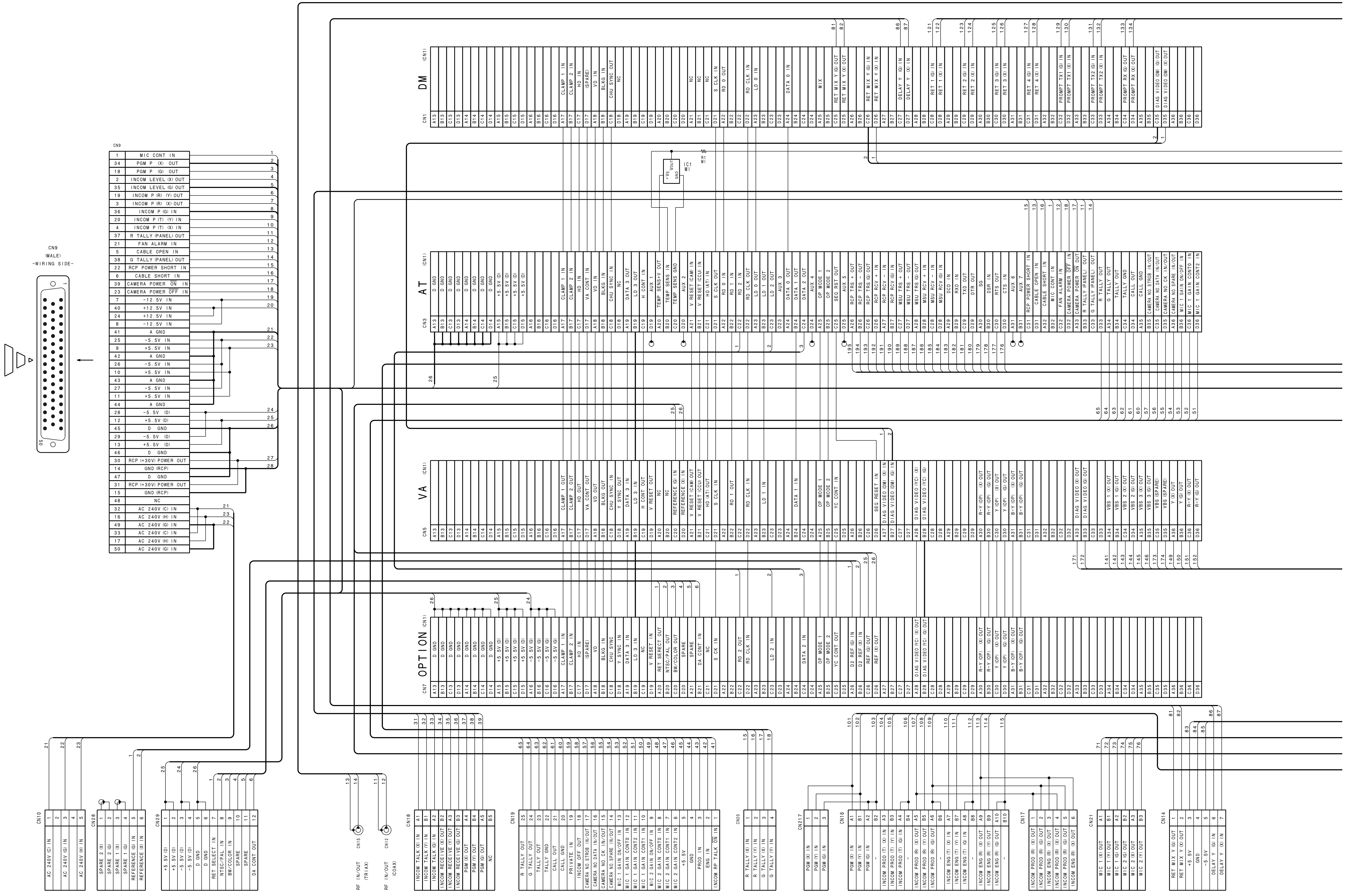
CCU-700A (J)
CCU-700A (UC)
CCU-700AP (CE)

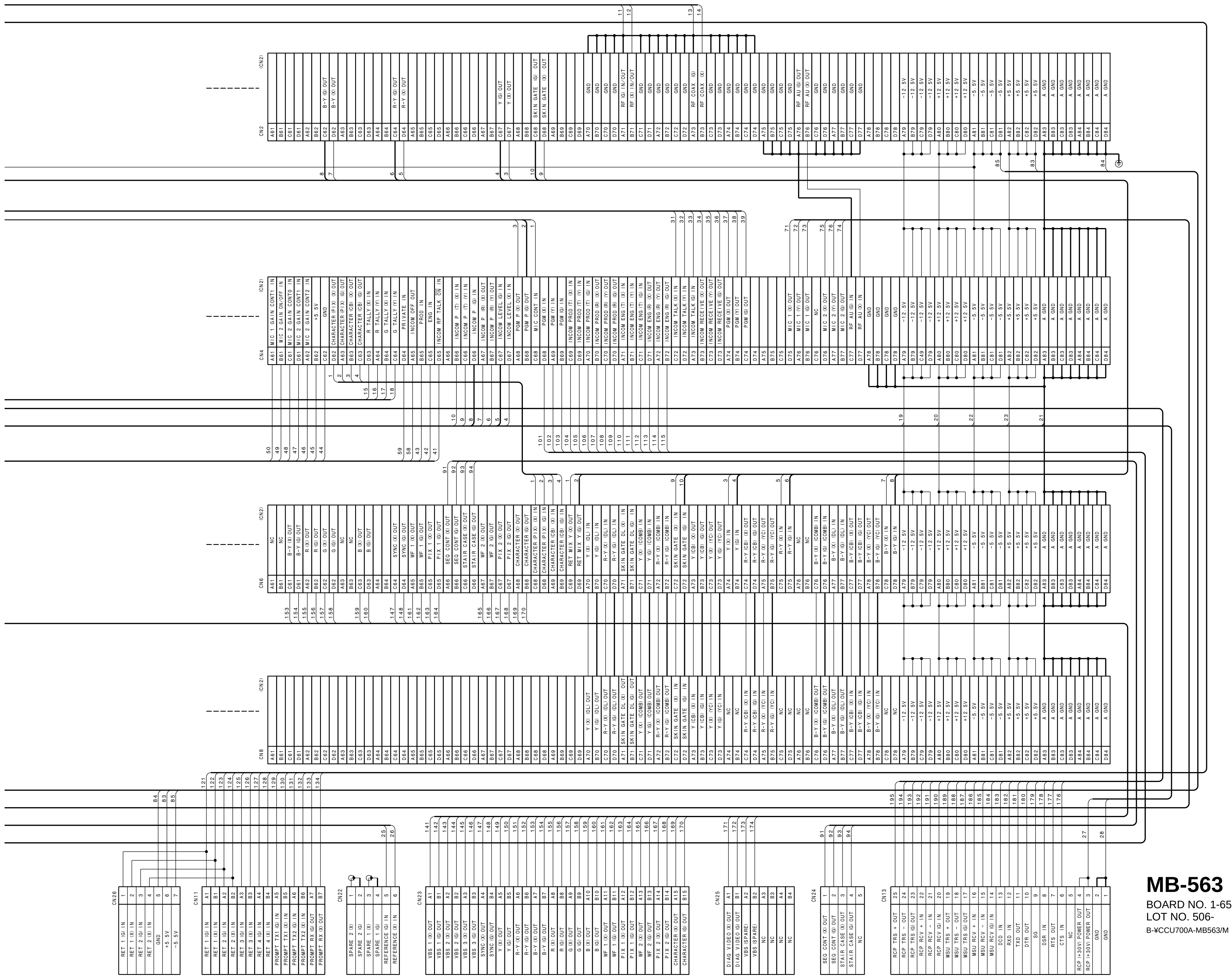
MB-563 BOARD

MB-563 (1-653-239-12)

CN1	C1
CN2	E1
CN3	C2
CN4	E2
CN5	C3
CN6	E3
CN7	C4
CN8	E4
CN9	A3
CN10	* F4
CN11	* D1
CN12	* E1
CN13	* A3
CN15	* E1
CN16	* E2
CN17	* D2
CN18	* D1
CN19	* F3
CN20	* D2
CN21	* E1
CN22	* C3
CN23	* D3
CN24	* B2
CN25	* D2
CN26	* D2
CN27	* D2
CN28	* B3

*:B SIDE


DM
AT
VA
OPTION
CN9
CN9 (MALE) -WIRING SIDE-
IC1 MI
CN10
CN28
CN29
CN15 RF IN/OUT (TRIAX)
CN12 RF IN/OUT (COAX)
CN18
CN19
CN20
CN217
CN16
CN17
CN21
CN14


CN2
CN4
CN6
CN8
(CN2)
CN26
RET 1 (G) IN
RET 1 (X) IN
RET 2 (G) IN
RET 2 (X) IN
GND
+5.5V
-5.5V
CN11
RET 1 (G) IN
RET 1 (X) IN
RET 2 (G) IN
RET 2 (X) IN
RET 3 (G) IN
RET 3 (X) IN
RET 4 (G) IN
RET 4 (X) IN
PROMPT TX1 (G) IN
PROMPT TX1 (X) IN
PROMPT TX2 (G) IN
PROMPT TX2 (X) IN
PROMPT RX (G) OUT
PROMPT RX (X) OUT
CN22
SPARE 2 (X)
SPARE 2 (G)
SPARE 1 (X)
SPARE 1 (G)
REFERENCE (G) IN
REFERENCE (X) IN
CN23
VBS 1 (X) OUT
VBS 1 (G) OUT
VBS 2 (X) OUT
VBS 2 (G) OUT
VBS 3 (X) OUT
VBS 3 (G) OUT
SYNC (X) OUT
SYNC (G) OUT
Y (X) OUT
Y (G) OUT
R−Y (X) OUT
R−Y (G) OUT
B−Y (X) OUT
B−Y (G) OUT
R (X) OUT
R (G) OUT
G (X) OUT
G (G) OUT
B (X) OUT
B (G) OUT
WF 1 (X) OUT
WF 1 (G) OUT
PIX 1 (X) OUT
PIX 1 (G) OUT
WF 2 (X) OUT
WF 2 (G) OUT
PIX 2 (X) OUT
PIX 2 (G) OUT
CHARACTER (X) OUT
CHARACTER (G) OUT
CN25
DIAG VIDEO (X) OUT
DIAG VIDEO (G) OUT
VBS (SPARE)
VBS (SPARE)
NC
NC
CN24
SEQ CONT (X) OUT
SEQ CONT (G) OUT
STAIR CASE (X) OUT
STAIR CASE (G) OUT
NC
CN13
RCP TRS + OUT
RCP TRS − OUT
RCP TRS (G) OUT
RCP RCV + IN
RCP RCV − IN
RCP RCV (G) IN
MSU TRS + OUT
MSU TRS − OUT
MSU TRS (G) OUT
MSU RCV + IN
MSU RCV − IN
MSU RCV (G) IN
DCD IN
RXD IN
TXD OUT
DTR OUT
SG
DSR IN
RTS OUT
CTS IN
NC
RCP (+30V) POWER OUT
RCP (+30V) POWER OUT
GND
GND

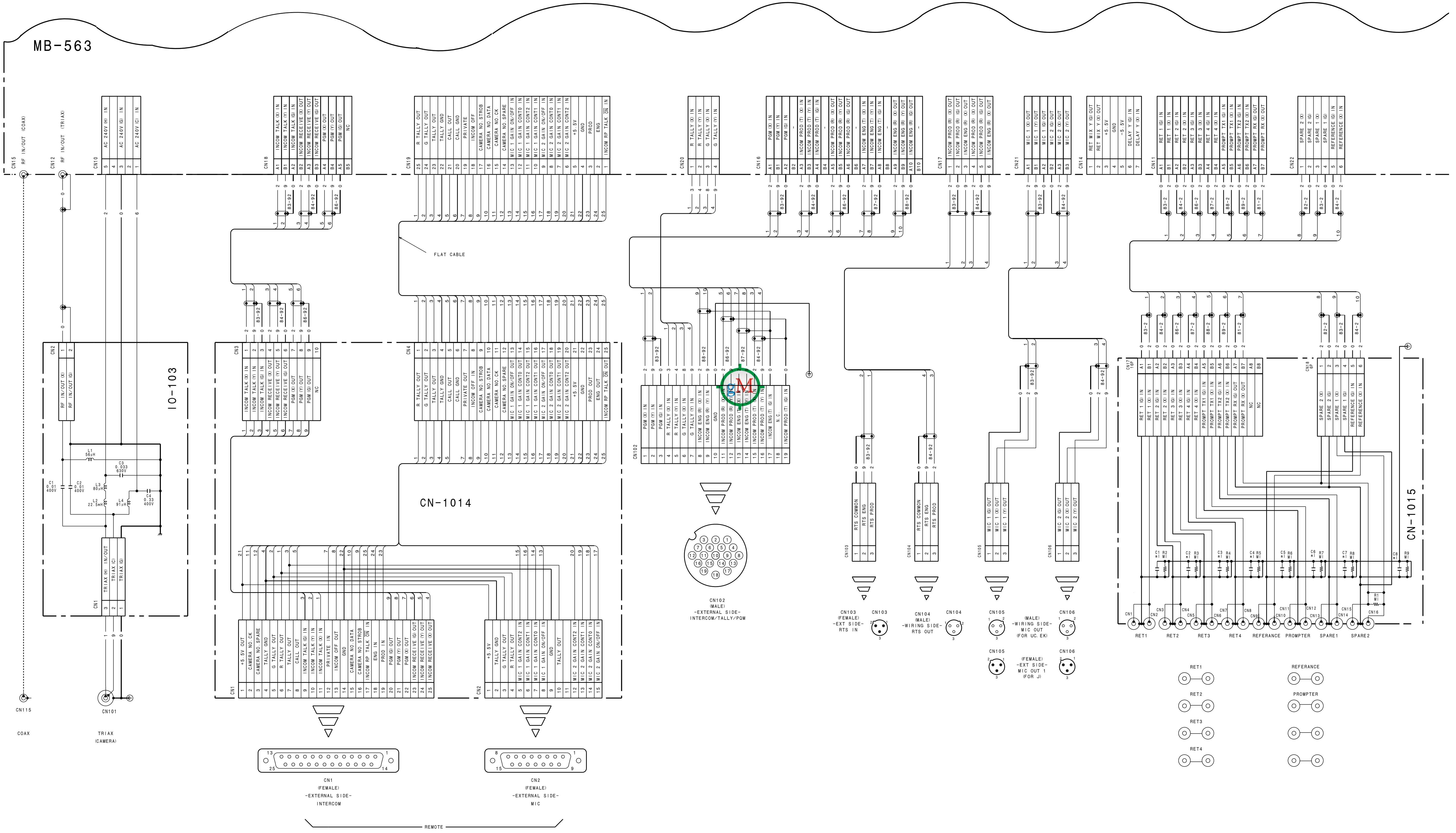
MB-563

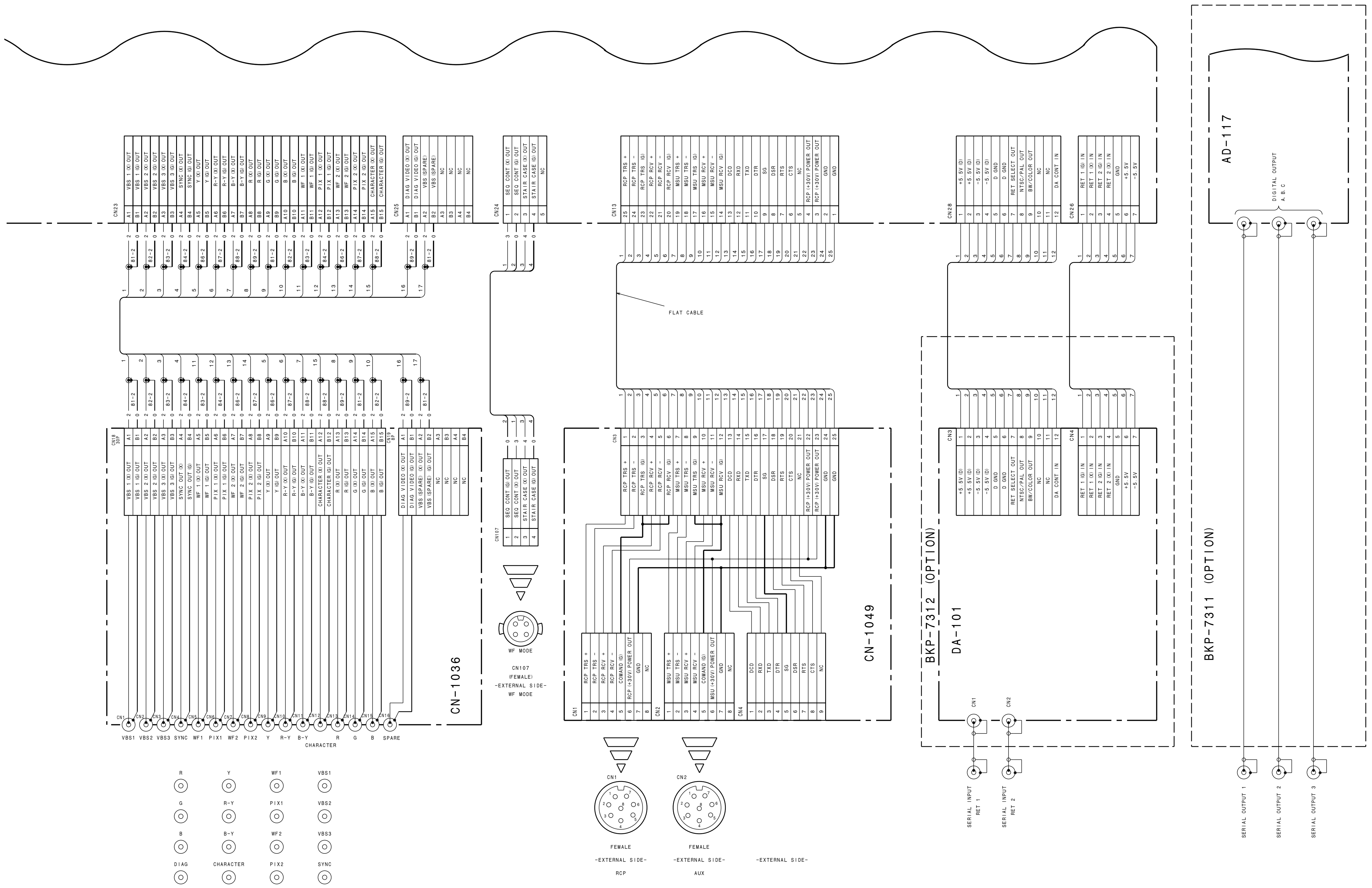
BOARD NO. 1-653-239-12
LOT NO. 506-
B-¥CCU700A-MB563/M

1
2
3
4
5
I
J
K
L
M
N
O
P

CCU-700A (J)
CCU-700A (UC)
CCU-700AP (CE)

FRAME WIRING


MB-563
IO-103
CN-1014
CN-1015
FLAT CABLE
CN15 RF IN/OUT (COAX)
CN12 RF IN/OUT (TRIAX)
CN10 AC 240V (H) IN AC 240V (G) IN AC 240V (C) IN
CN2 RF IN/OUT (X) RF IN/OUT (G)
CN1 TRIAX (H) IN/OUT TRIAX (G) TRIAX
L1 56μH
C3 0.033 630V
C1 0.01 400V
C2 0.01 400V
L3 80μH
L2 22.5mH
L4 91μH
C4 0.33 400V
CN115 COAX
CN101 TRIAX (CAMERA)
CN1 (FEMALE) -EXTERNAL SIDE- INTERCOM
CN2 (FEMALE) -EXTERNAL SIDE- MIC
REMOTE
CN102 (MALE) -EXTERNAL SIDE- INTERCOM/TALLY/PGM
CN103 (FEMALE) -EXT SIDE- RTS IN
CN104 (MALE) -WIRING SIDE- RTS OUT
CN105 CN106 (MALE) -WIRING SIDE- MIC OUT (FOR UC, EK)
CN105 CN106 (FEMALE) -EXT SIDE- MIC OUT 1 (FOR J)
RTS COMMON RTS ENG RTS PROD
MIC 1 (G) OUT MIC 1 (X) OUT MIC 1 (Y) OUT
MIC 2 (G) OUT MIC 2 (X) OUT MIC 2 (Y) OUT
RET1 RET2 RET3 RET4 REFERANCE PROMPTER SPARE1 SPARE2
RET1 RET2 RET3 RET4
REFERANCE PROMPTER


CN23
CN25
CN24
CN13
CN28
CN26
AD-117
DIGITAL OUTPUT
A, B, C
FLAT CABLE
CN18
CN19
CN107
WF MODE
CN107
(FEMALE)
-EXTERNAL SIDE-
WF MODE
CN-1036
CN3
CN-1049
CN1
CN2
CN4
BKP-7312 (OPTION)
DA-101
BKP-7311 (OPTION)
VBS1
VBS2
VBS3
SYNC
WF1
PIX1
WF2
PIX2
Y
R-Y
B-Y
CHARACTER
R
G
B
SPARE
DIAG
FEMALE
-EXTERNAL SIDE-
RCP
AUX
SERIAL INPUT RET 1
SERIAL INPUT RET 2
SERIAL OUTPUT 1
SERIAL OUTPUT 2
SERIAL OUTPUT 3
1
2
3
4
5
I
J
K
L
M
N
O
P

FRAME WIRING

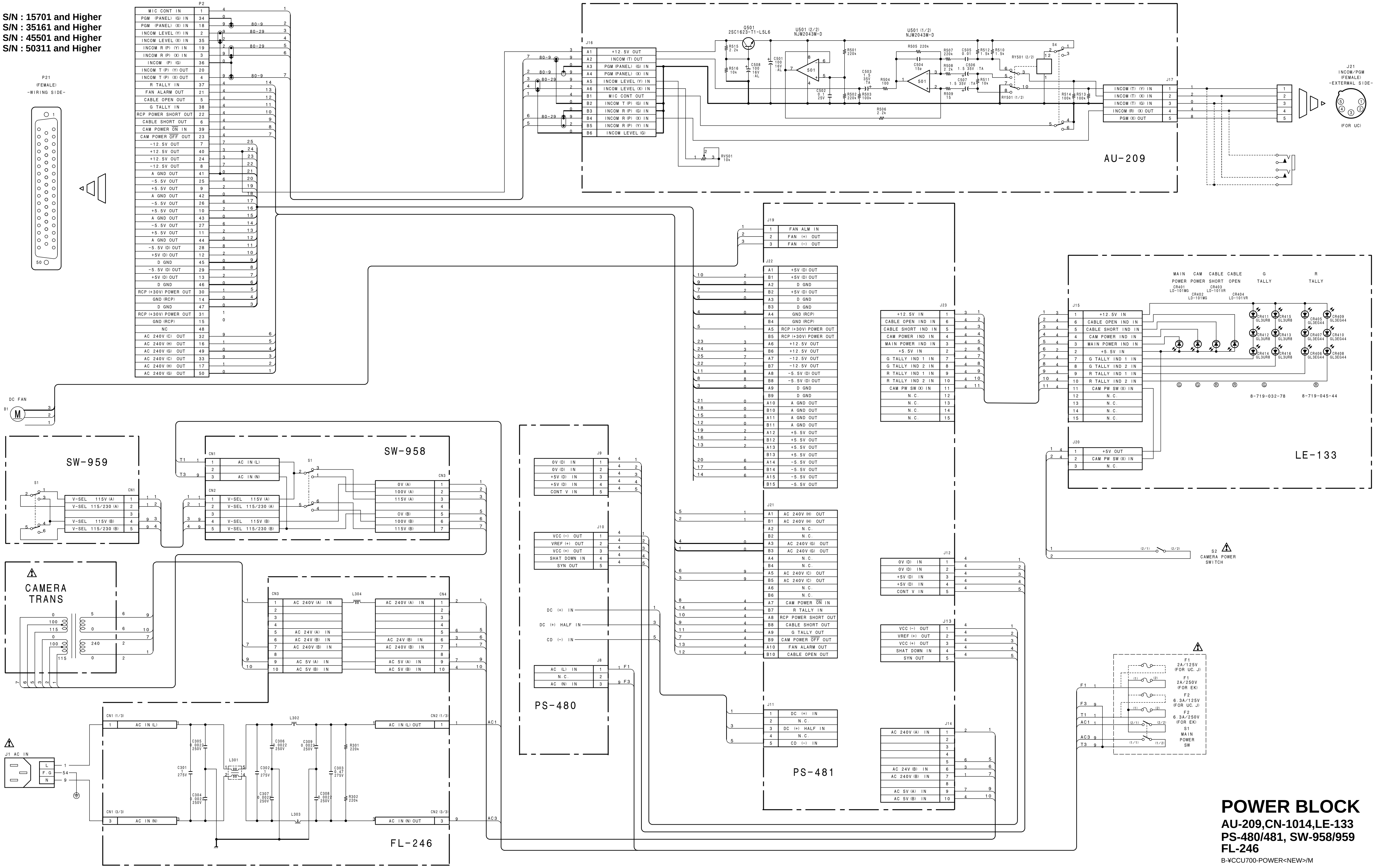
CN-1014/1015/1036/1049
IO-103

B-¥CCU700A-FRAME/M

CCU-700A (J)
CCU-700A (UC)
CCU-700AP (CE)

POWER BLOCK

S/N : 15701 and Higher
S/N : 35161 and Higher
S/N : 45501 and Higher
S/N : 50311 and Higher


1
2
3
4
5
P21
(FEMALE)
-WIRING SIDE-
P2
MIC CONT IN
PGM (PANEL) (G) IN
PGM (PANEL) (X) IN
INCOM LEVEL (Y) IN
INCOM LEVEL (X) IN
INCOM R (P) (Y) IN
INCOM R (P) (X) IN
INCOM (P) (G)
INCOM T (P) (Y) OUT
INCOM T (P) (X) OUT
R TALLY IN
FAN ALARM OUT
CABLE OPEN OUT
G TALLY IN
RCP POWER SHORT OUT
CABLE SHORT OUT
CAM POWER ON IN
CAM POWER OFF OUT
−12.5V OUT
+12.5V OUT
A GND OUT
−5.5V OUT
+5.5V OUT
−5.5V (D) OUT
+5V (D) OUT
D GND
RCP (+30V) POWER OUT
GND (RCP)
NC
AC 240V (C) OUT
AC 240V (H) OUT
AC 240V (G) OUT
DC FAN
B1
M
J16
+12.5V OUT
INCOM (T) OUT
PGM (PANEL) (G) IN
PGM (PANEL) (X) IN
INCOM LEVEL (Y) IN
INCOM LEVEL (X) IN
MIC CONT OUT
INCOM T (P) (G) IN
INCOM R (P) (G) IN
INCOM R (P) (X) IN
INCOM R (P) (Y) IN
INCOM LEVEL (G)
Q501
2SC1623-T1-L5L6
U501 (2/2)
NJM2043M-D
U501 (1/2)
NJM2043M-D
RV501
10k
RY501 (2/2)
RY501 (1/2)
S4
J17
INCOM (T) (Y) IN
INCOM (T) (X) IN
INCOM (T) (G) IN
INCOM (R) (X) OUT
PGM (X) OUT
AU-209
J21
INCOM/PGM
(FEMALE)
-EXTERNAL SIDE-
(FOR UC)
J19
FAN ALM IN
FAN (+) OUT
FAN (−) OUT
J22
+5V (D) OUT
D GND
GND (RCP)
RCP (+30V) POWER OUT
+12.5V OUT
−12.5V OUT
−5.5V (D) OUT
A GND OUT
+5.5V OUT
−5.5V OUT
J21
AC 240V (H) OUT
N.C.
AC 240V (G) OUT
AC 240V (C) OUT
CAM POWER ON IN
R TALLY IN
RCP POWER SHORT OUT
CABLE SHORT OUT
G TALLY OUT
CAM POWER OFF OUT
FAN ALARM OUT
CABLE OPEN OUT
J11
DC (+) IN
DC (+) HALF IN
CD (−) IN
PS-481
J23
+12.5V IN
CABLE OPEN IND IN
CABLE SHORT IND IN
CAM POWER IND IN
MAIN POWER IND IN
+5.5V IN
G TALLY IND 1 IN
G TALLY IND 2 IN
R TALLY IND 1 IN
R TALLY IND 2 IN
CAM PW SW (X) IN
N.C.
J12
0V (D) IN
+5V (D) IN
CONT V IN
J13
VCC (−) OUT
VREF (+) OUT
VCC (+) OUT
SHAT DOWN IN
SYN OUT
J14
AC 240V (A) IN
AC 24V (B) IN
AC 240V (B) IN
AC 5V (A) IN
AC 5V (B) IN
J15
J20
+5V OUT
CAM PW SW (X) IN
MAIN CAM CABLE CABLE G R
POWER POWER SHORT OPEN TALLY TALLY
LE-133
8-719-032-78
8-719-045-44
S2
CAMERA POWER
SWITCH
SW-959
S1
CN1
V-SEL 115V (A)
V-SEL 115/230 (A)
V-SEL 115V (B)
V-SEL 115/230 (B)
SW-958
AC IN (L)
AC IN (N)
0V (A)
100V (A)
115V (A)
0V (B)
100V (B)
115V (B)
CAMERA
TRANS
CN3
AC 240V (A) IN
AC 24V (A) IN
AC 240V (B) IN
AC 5V (A) IN
AC 5V (B) IN
L304
CN4
AC 24V (B) IN
J9
0V (D) IN
+5V (D) IN
CONT V IN
J10
VCC (−) OUT
VREF (+) OUT
VCC (+) OUT
SHAT DOWN IN
SYN OUT
DC (+) IN
DC (+) HALF IN
CD (−) IN
J8
AC (L) IN
N.C.
AC (N) IN
PS-480
J1 AC IN
L
FG
N
CN1 (1/3)
AC IN (L)
CN1 (3/3)
AC IN (N)
L301
L302
L303
CN2 (1/3)
AC IN (L) OUT
CN2 (3/3)
AC IN (N) OUT
AC1
AC3
FL-246
F1
2A/125V
(FOR UC, J)
F1
2A/250V
(FOR EK)
F2
6.3A/125V
(FOR UC, J)
F2
6.3A/250V
(FOR EK)
S1
MAIN
POWER
SW

POWER BLOCK

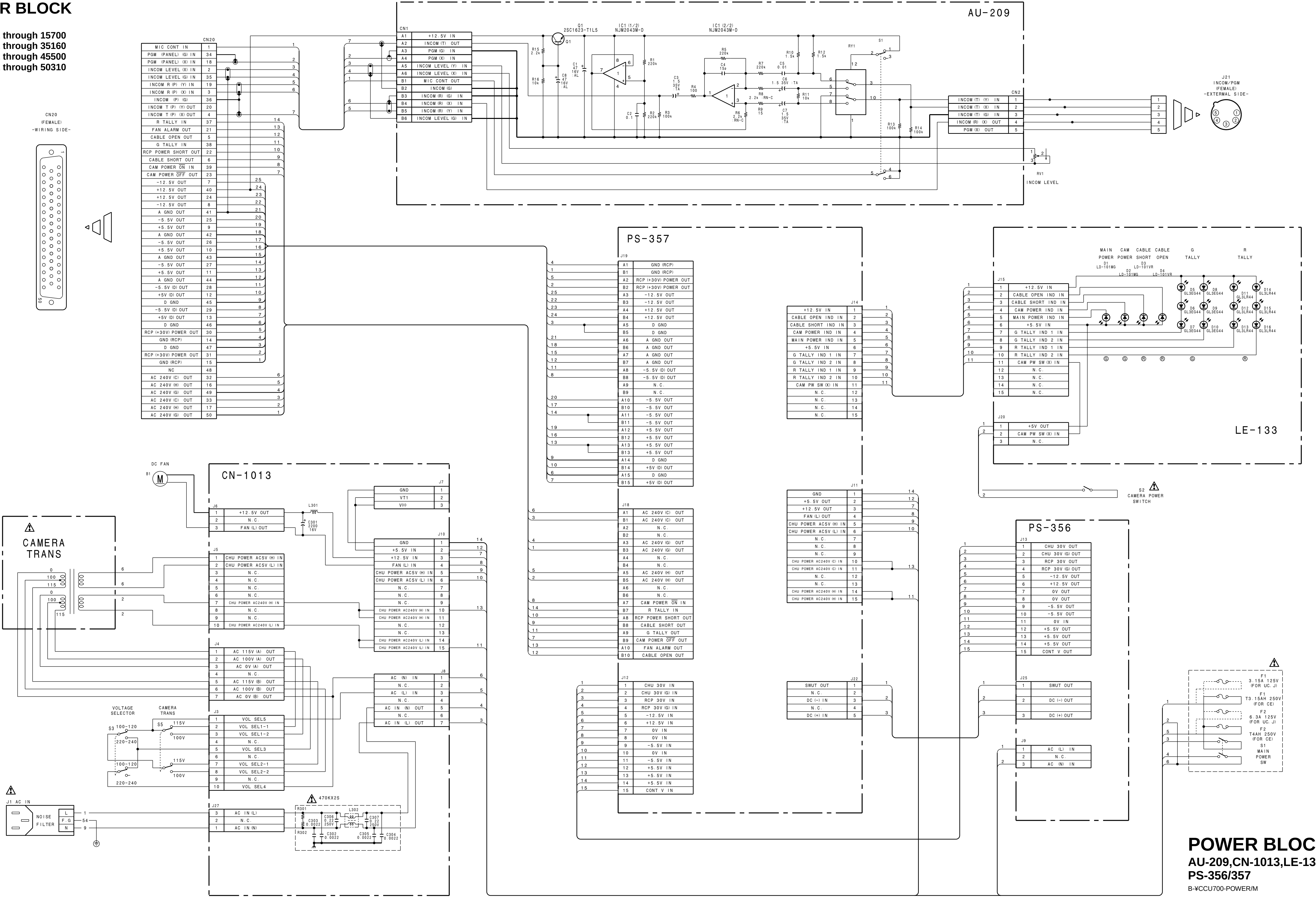
AU-209,CN-1014,LE-133
PS-480/481, SW-958/959
FL-246

B-¥CCU700-POWER<NEW>/M

CCU-700A (J)
CCU-700A (UC)
CCU-700AP (CE)

POWER BLOCK

S/N : 15001 through 15700
S/N : 35001 through 35160
S/N : 45001 through 45500
S/N : 50001 through 50310



AU-209
CN1
CN2
J21 INCOM/PGM (FEMALE) -EXTERNAL SIDE-
RV1 INCOM LEVEL
CN20 (FEMALE) -WIRING SIDE-
CN20
PS-357
J19
J18
J12
J14
J11
J22
LE-133
J15
J20
S2 CAMERA POWER SWITCH
PS-356
J13
J25
J9
CN-1013
DC FAN
J6
J5
J4
J3
J7
J10
J8
J27
CAMERA TRANS
VOLTAGE SELECTOR
CAMERA TRANS
J1 AC IN
NOISE FILTER
470KX2S
F1 3.15A 125V (FOR UC, J)
F1 T3.15AH 250V (FOR CE)
F2 6.3A 125V (FOR UC, J)
F2 T4AH 250V (FOR CE)
S1 MAIN POWER SW

POWER BLOCK

AU-209,CN-1013,LE-133
PS-356/357

B-¥CCU700-POWER/M

1
2
3
4
5

A B C D E F G H

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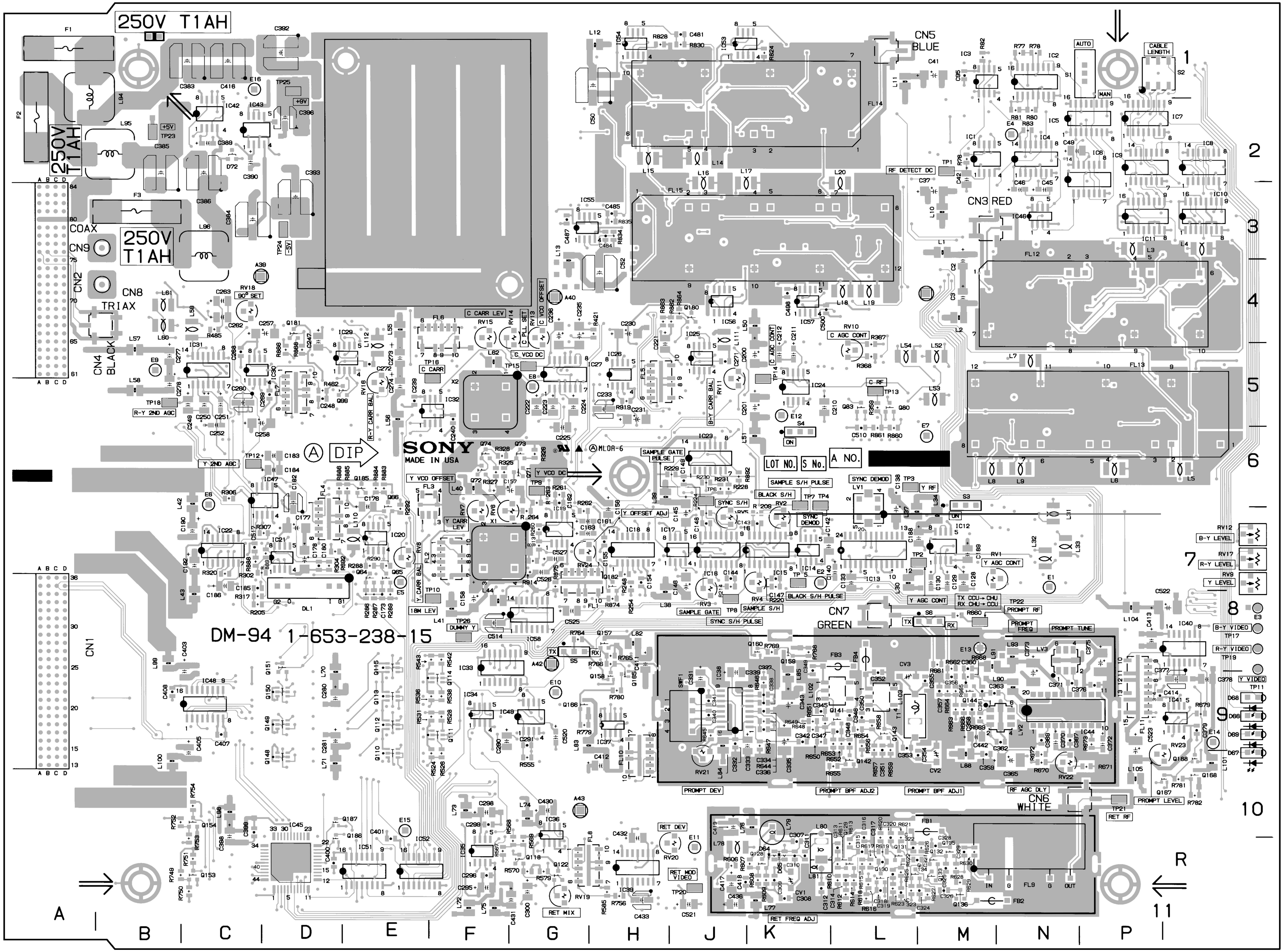
Section 5
Board Layouts

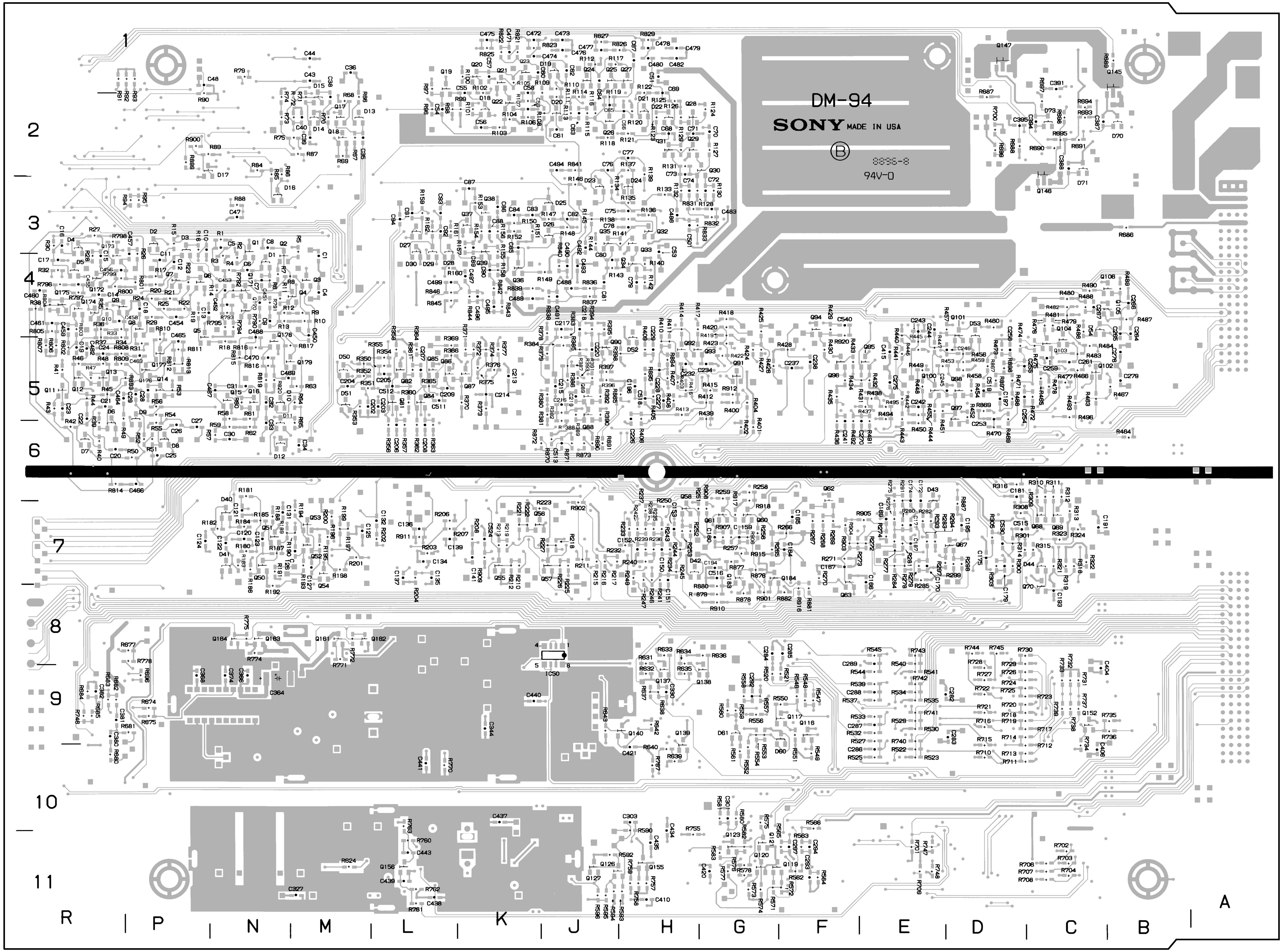
5-1

DM-94 BOARD


250V T1AH
CN5 BLUE
CN3 RED
COAX
CN9
CN2
CN8
TRIAX
CN4 BLACK
CN1
CN7 GREEN
CN6 WHITE
SONY
MADE IN USA
DIP
LOT NO.
S No.
A NO.
DM-94 1-653-238-15
AUTO
MAN
CABLE LENGTH
C CARR LEV
C VCO OFFSET
C PLL SET
C VCO DC
C CARR
R-Y 2ND AGC
Y 2ND AGC
R-Y CARR BAL
Y VCO OFFSET
Y VCO DC
Y CARR LEV
B-Y CARR BAL
C AGC CONT
C RF
RF DETECT DC
SAMPLE GATE PULSE
SAMPLE S/H PULSE
SYNC DEMOD
BLACK S/H
SYNC S/H
Y OFFSET ADJ
Y RF
Y AGC CONT
B-Y LEVEL
R-Y LEVEL
Y LEVEL
B-Y VIDEO
R-Y VIDEO
Y VIDEO
TX CCU→CHU
RX CHU→CCU
PROMPT RF
PROMPT FREQ
PROMPT TUNE
PROMPT DEV
PROMPT BPF ADJ2
PROMPT BPF ADJ1
RF AGC DLY
PROMPT LEVEL
RET RF
RET DEV
RET MOD VIDEO
RET MIX
RET FREQ ADJ
BLACK S/H PULSE
SAMPLE GATE
SYNC S/H PULSE
SAMPLE S/H
18M LEV
DUMMY Y
A
B
C
D
E
F
G
H
J
K
L
M
N
P
R
1
2
3
4
5
6
7
8
9
10
11

DM-94 - A SIDE -

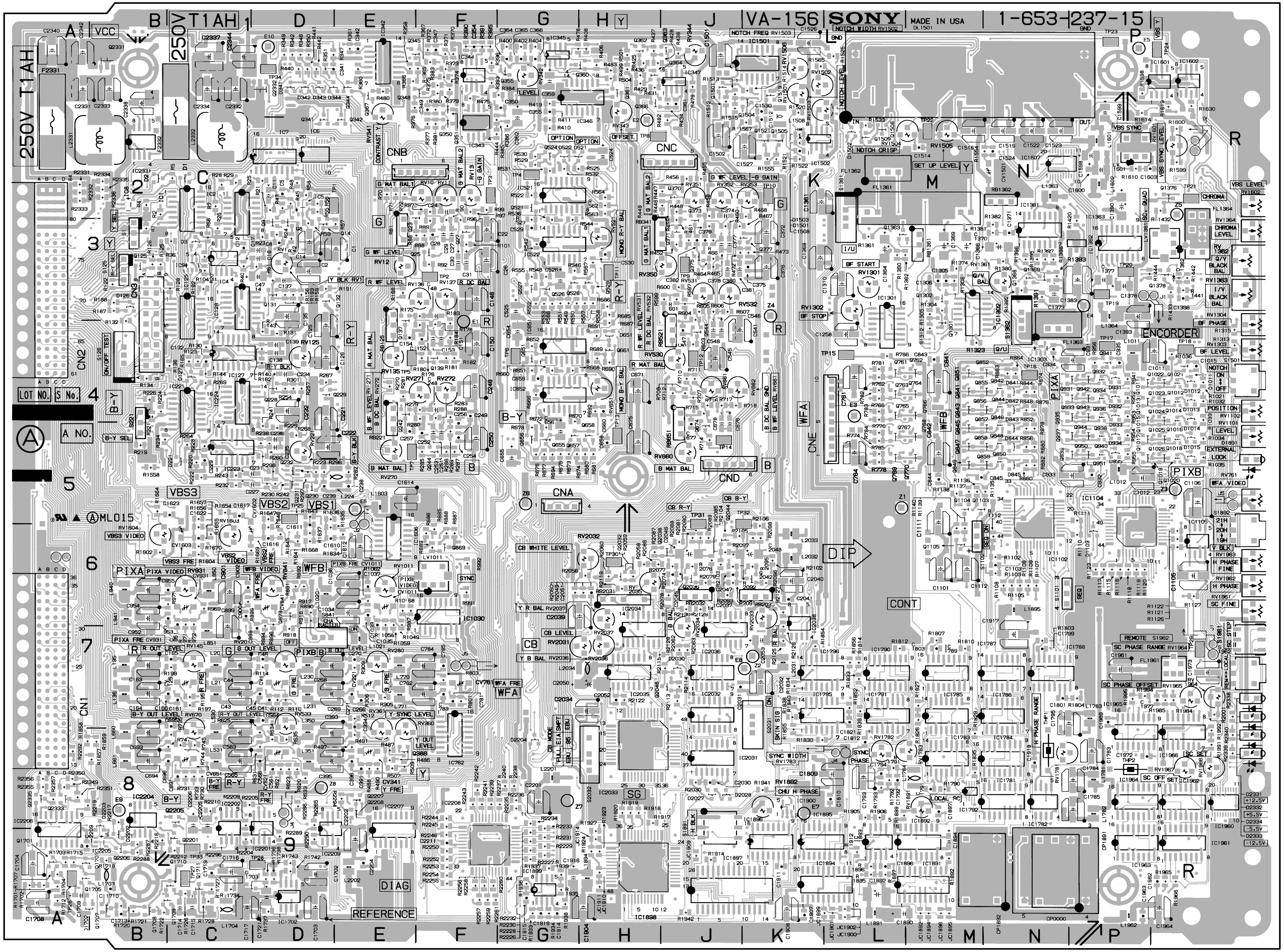
1-653-238-15


DM-94
SONY MADE IN USA
94V-0
1
2
3
4
5
6
7
8
9
10
11
R
P
N
M
L
K
J
H
G
F
E
D
C
B
A

DM-94 - B SIDE -

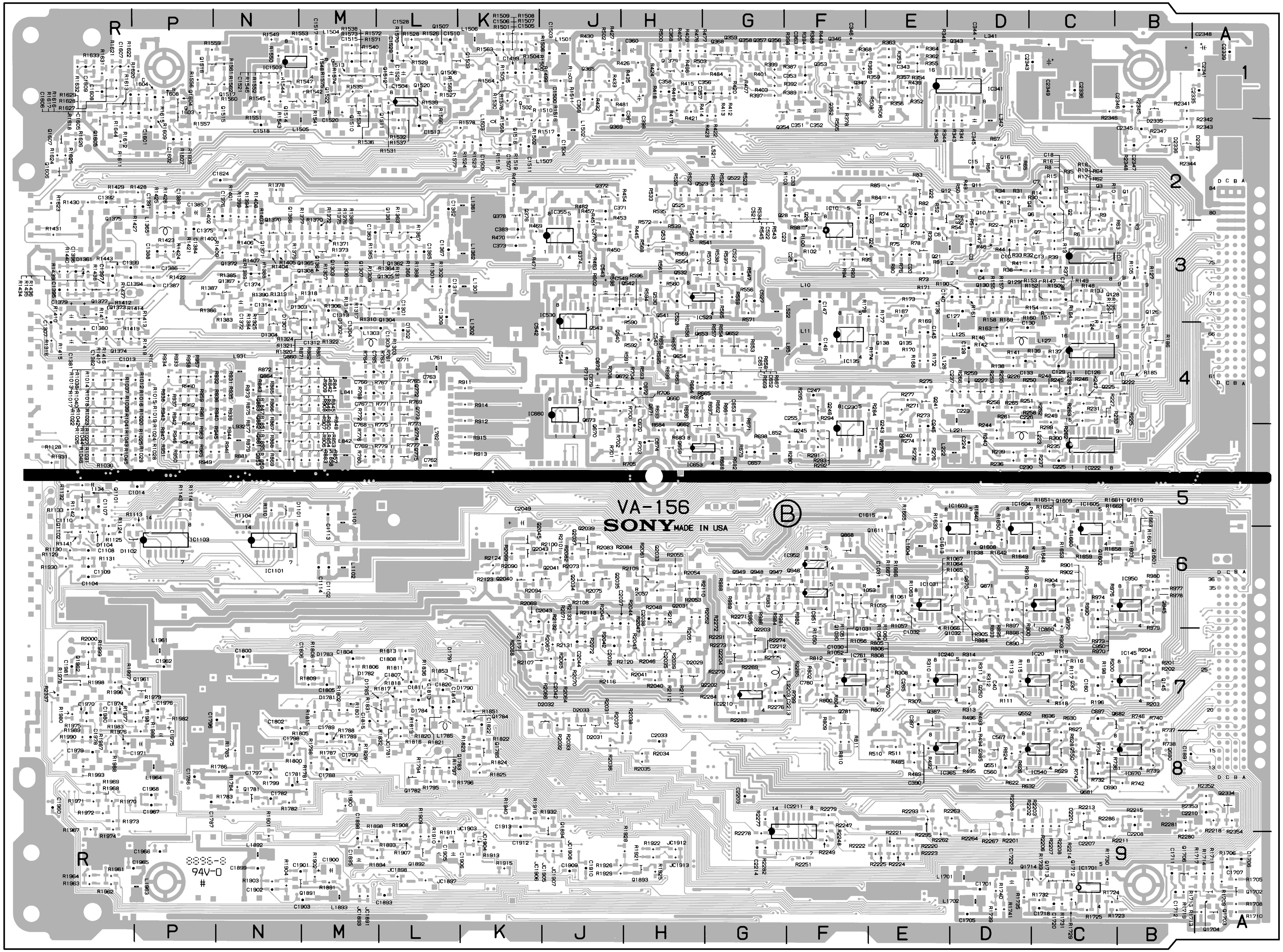
1-653-238-15

VA-156 BOARD


VA-156
SONY
MADE IN USA
1-653-237-15
250V T1AH
CNA
CNB
CNC
CND
CNE
CN1
CN2
CN3
DIP
CONT
DIAG
REFERENCE
ENCORDER
PIXA
PIXB
WFA
WFB
VBS1
VBS2
VBS3
LOT NO.
S No.
A NO.
A
B
C
D
E
F
G
H
J
K
L
M
N
P
R
1
2
3
4
5
6
7
8
9

VA-156 - A SIDE -

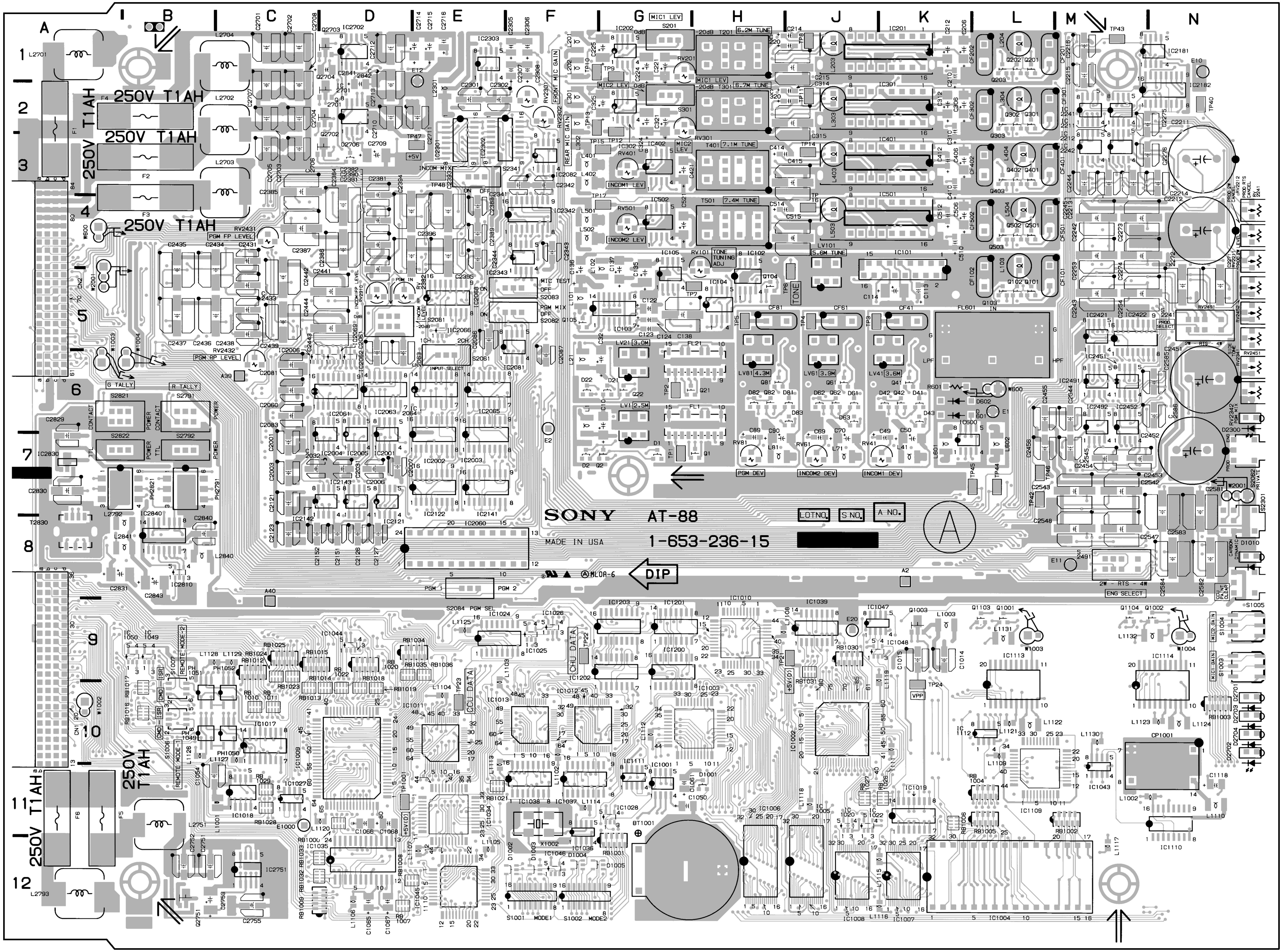
1-653-237-15


R
P
N
M
L
K
J
H
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
VA-156
SONY MADE IN USA
B
94V-0

VA-156 - B SIDE -

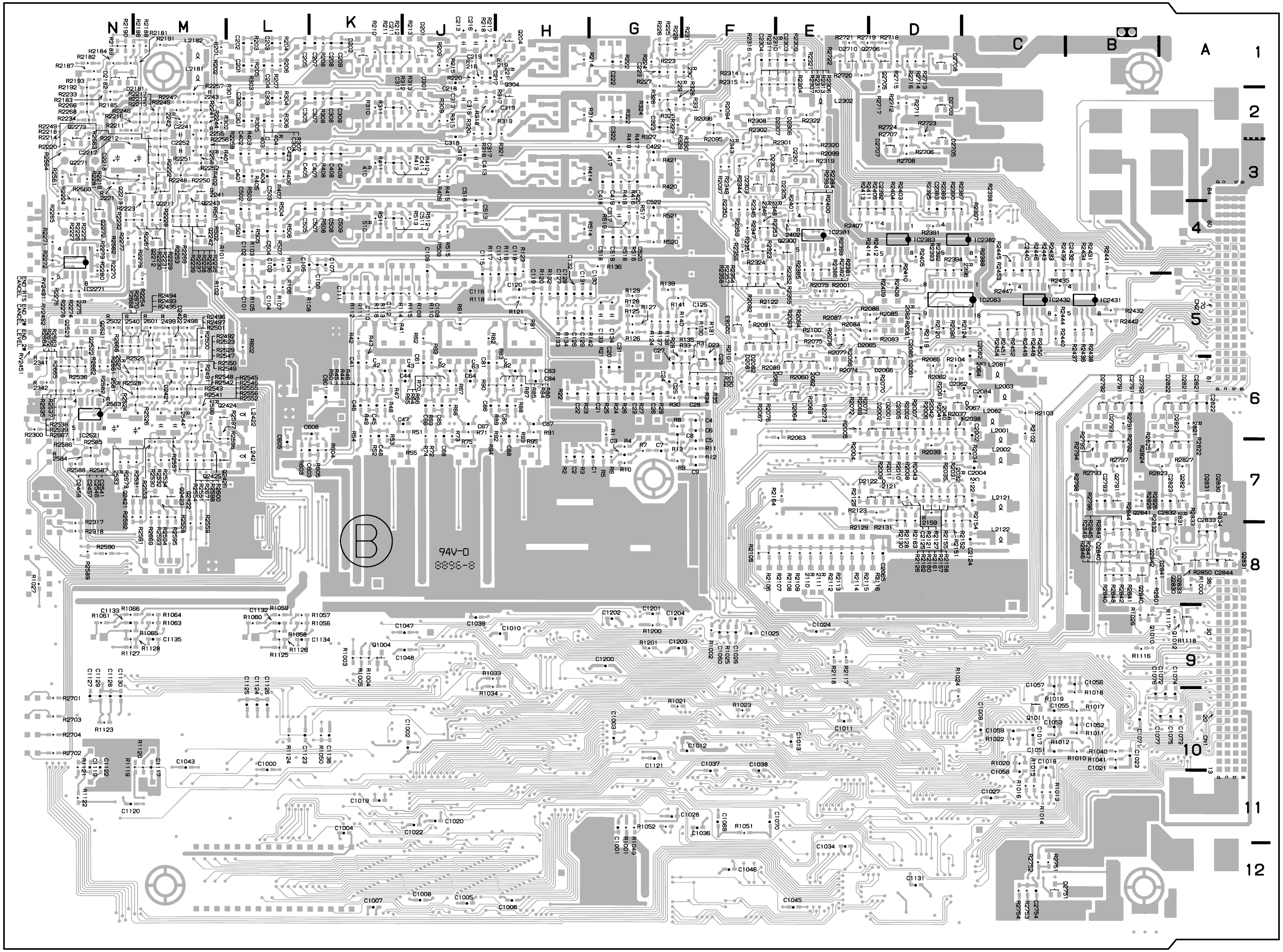
1-653-237-15

AT-88 BOARD


A
B
C
D
E
F
G
H
J
K
L
M
N
1
2
3
4
5
6
7
8
9
10
11
12
250V T1AH
250V T1AH
250V T1AH
250V T1AH
250V T1AH
250V T1AH
F1
F2
F3
F4
F5
F6
L2701
L2702
L2703
L2704
L2793
SONY
AT-88
1-653-236-15
MADE IN USA
LOTNO.
S NO.
A NO.
A
DIP
G TALLY
R TALLY
S2821
S2791
S2822
S2792
PGM FP LEVEL
PGM RP LEVEL
MIC1 LEV
MIC2 LEV
INCOM1 LEV
INCOM2 LEV
6.2M TUNE
6.7M TUNE
7.1M TUNE
7.4M TUNE
5.6M TUNE
TONE TUNING ADJ
TONE
FL601
PGM DEV
INCOM2 DEV
INCOM1 DEV
MIC TEST
PGM MIX
INCOM MIX
FRONT MIC GAIN
REAR MIC GAIN
INPUT SELECT
PGM SEL
PGM 1
PGM 2
CHU DATA
CCU DATA
REMOTE MODE-1
REMOTE MODE-2
MODE1
MODE2
S1001
S1002
BT1001
X1002
IC1004
IC1010
IC2060
CP1001
2W - RTS - 4W
ENG SELECT
PROD SELECT
MIC1 GAIN
MIC2 GAIN
PRIVATE
CARBON DYNAMIC
TP43
E10
E11
A39
A40
A2

AT-88 - A SIDE -

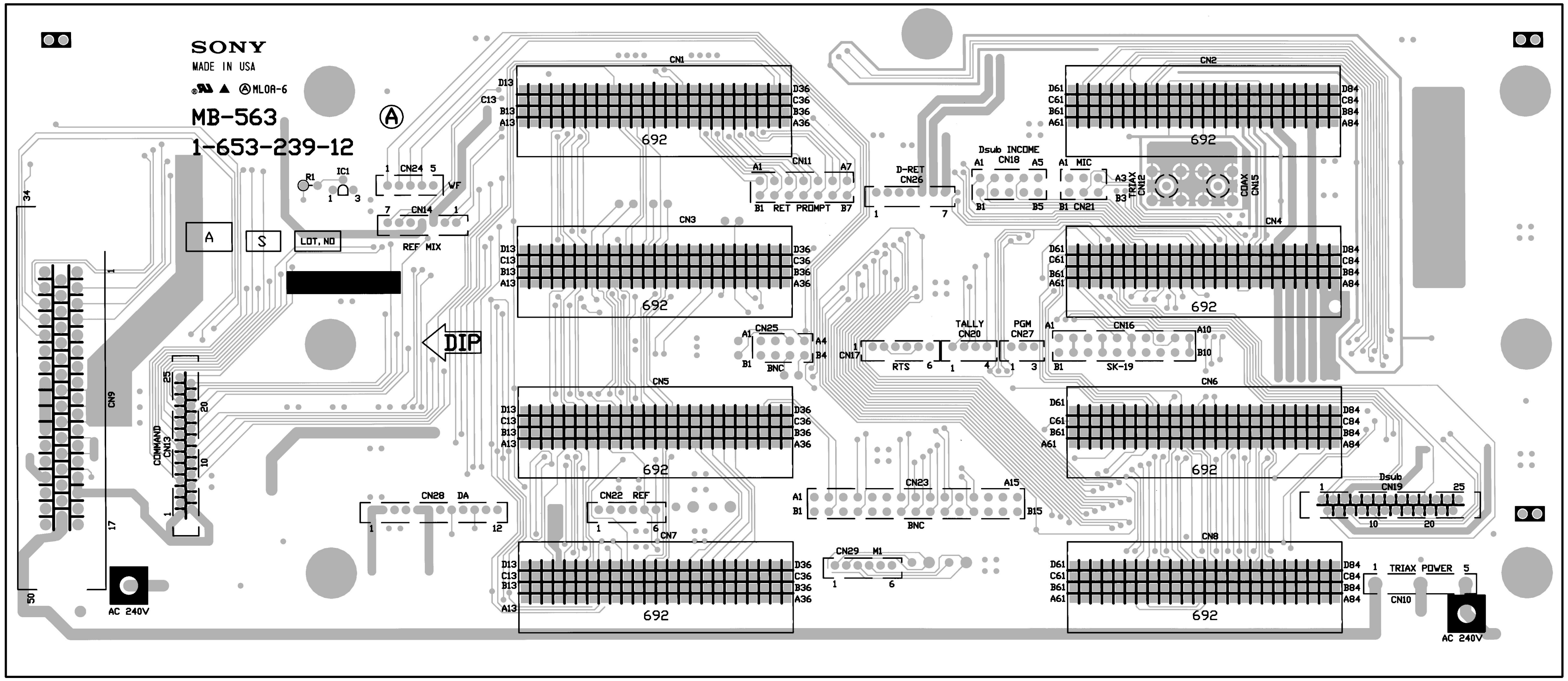
1-653-236-15



AT-88 - B SIDE -

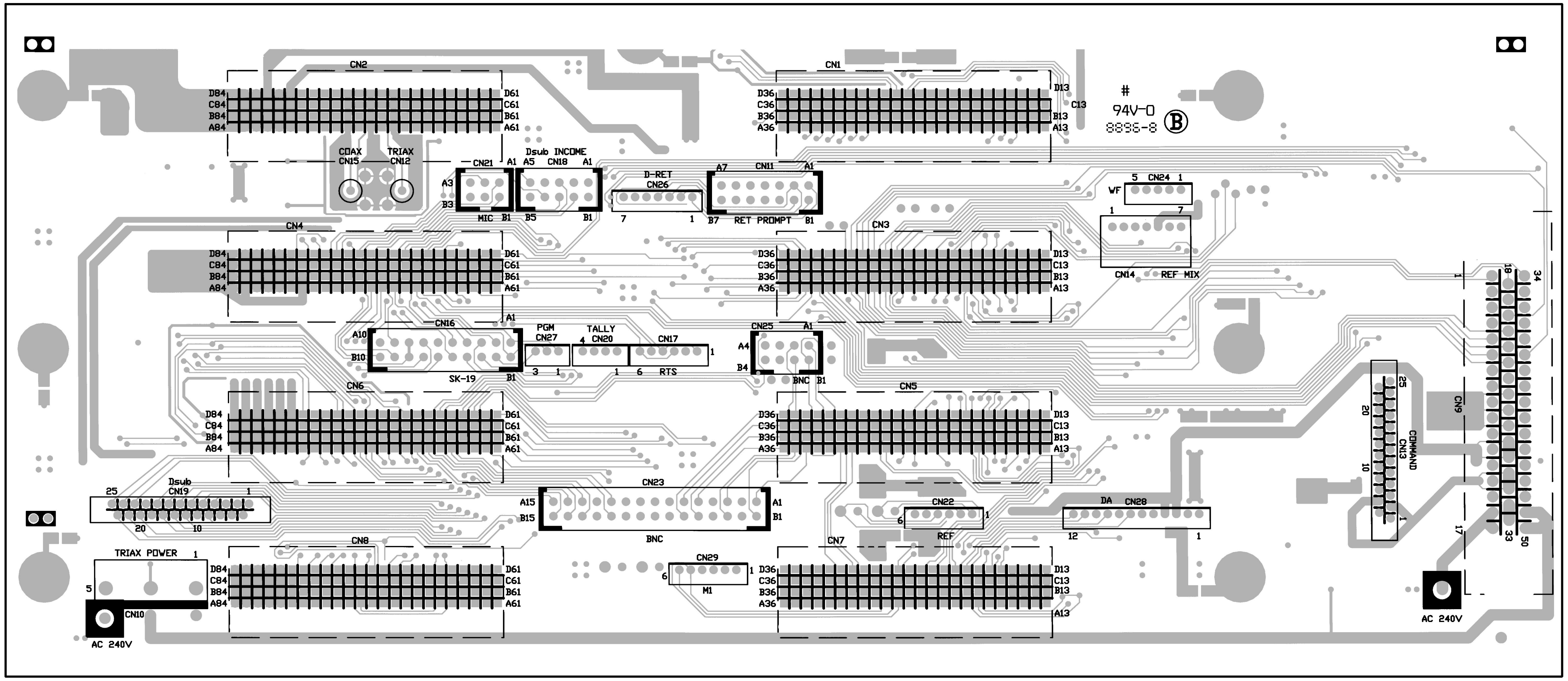
1-653-236-15

MB-563 BOARD


SONY
MADE IN USA
MLOA-6
MB-563
1-653-239-12
Ⓐ
A
S
LOT, NO
DIP
R1
IC1
CN24 WF
CN14 REF MIX
CN9
CN13 COMMAND
CN1
CN2
CN3
CN4
CN5
CN6
CN7
CN8
CN10 TRIAX POWER
CN11 RET PROMPT
CN12 TRIAX
CN15 COAX
CN16 SK-19
CN17 RTS
CN18 Dsub INCOME
CN19 Dsub
CN20 TALLY
CN21 MIC
CN22 REF
CN23 BNC
CN25 BNC
CN26 D-RET
CN27 PGM
CN28 DA
CN29 M1
692
AC 240V

MB-563 - A SIDE -

1-653-239-12


#
94V-0
8886-8
Ⓑ
CN1
CN2
CN3
CN4
CN5
CN6
CN7
CN8
CN9
CN10
CN11 RET PROMPT
CN12 TRIAX
CN13 COMMAND
CN14 REF MIX
CN15 COAX
CN16 SK-19
CN17 RTS
CN18 Dsub INCOME
CN19 Dsub
CN20 TALLY
CN21 MIC
CN22 REF
CN23 BNC
CN24 WF
CN25 BNC
CN26 D-RET
CN27 PGM
CN28 DA
CN29 M1
TRIAX POWER
AC 240V

MB-563 - B SIDE -

1-653-239-12

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SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer :

Check the metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 3.5 mA. Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 5.25 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 20 V AC range are suitable. (See Fig. A)

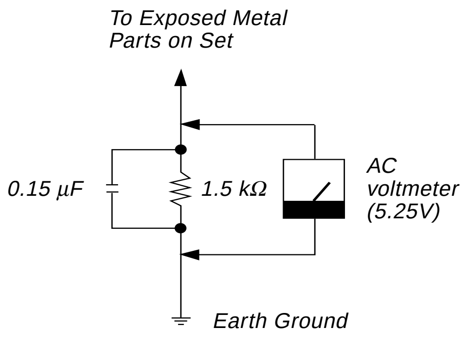

Fig A. Using an AC voltmeter to check AC leakage.

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